

The *New*

A P P I

Advance Planning Procurement Information



PROGRAM

For

INDUSTRY

U. S. ARMY MATERIEL COMMAND

APPI

ADVANCE PLANNING PROCUREMENT INFORMATION

Army Materiel Command Regulation 715-72

APPI is defined as "information regarding current and future requirements for Army procurement" and is generated by the Army Materiel Command element having procurement responsibility for the item.

The APPI Program consists both of the information which can be classified or unclassified and the mechanics by which the information may be transmitted to industrial sources without endangering the National security or creating a competitive advantage for one or a group of sources.

APPI on any given item is packaged into a single sheet form that includes pertinent historical and descriptive facts; current fiscal year procurement actions; quantities, production rates; availability of technical data; anticipated methods of procurement; and the Army's planned procurements through the following six fiscal years.

APPI is processed and transmitted to interested sources through a network of geographically dispersed Army/Industry Materiel Information Liaison Offices (AIMILO) created for that purpose. Presently AMC has established an AIMILO at each of its major procuring elements: USA MICOM...JSA MUCOM...USA ECOM ...USA WECOM ...USATAC ...USA AVCOM ...USAMEC and in two contact points: Southwest Procurement Agency, Los Angeles and Northwest Procurement Agency, San Francisco.

APPI generated by one procuring element is distributed immediately to all other AIMILOs. A synopsis of the APPI is prepared and published the first Tuesday of each month by U. S. Department of Commerce in the COMMERCE BUSINESS DAILY, P. O. Box 5999, Chicago, Illinois 60680 before the APPI itself may be released. Only then may APPI be mailed by the procuring element to names on its bidders lists or released by other AIMILOs to industrial sources which were alerted by synopsis publication. AIMILOs are furnished also a background data file on each item in order to assist them in servicing "local" industry.

As a result of this new Army program industry may obtain from any one of nine AIMILOs advance planning procurement information at the earliest possible time in the procurement planning cycle and be assured that this APPI is identical with the information being released at any other AMC element or office.

In cases where the APPI is classified the security clearance required to receive such information will be noted in the published synopsis. Proof of appropriate security clearance will be necessary before any AIMILO will release the classified APPI. If interested industries lack appropriate security clearance, they may initiate actions to secure clearance at any AIMILO.

By introducing the APPI Program the Army seeks to place all industry in a far better competitive position by furnishing the most comprehensive future marketing picture ever attempted.

In return the Army expects to acquire products and services at a much reduced cost figure due to increased competition spurred by the APPI Program.

APPI has been received enthusiastically by both AMC participating elements and user industries. Although the Army still is evaluating results obtained so far there seems to be little doubt that an expanded APPI Program will play a major part in the Army's future Industry Information effort.

COMMERCE BUSINESS DAILY

• Daily list of U. S. Government procurement invitations, advertising leads, contract award, sales of surplus property and foreign business opportunities.

U. S. DEPARTMENT OF COMMERCE

CHICAGO, ILL. 60607

ADVANCE PLANNING PROCUREMENT INFORMATION U. S. ARMY

Producers of... have prepared to... the U. S. Army... Advance Planning...

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APPI No. 5 Frequency Meter, AN/TSM-100 frequency data: 20 cps to 1 mc, 0.001 pct accuracy, internal frequency calibrating crystal included, open power req; ac 115v 60 cps single phase; 200, 300, 440 cps single phase case data: aluminum w/brake finish; o/a dim.; 21:313 in. lg x 12.281 in. w x 21.313 in. h, case mid, accessories: 1 Frequency Meter FR-114A/U; 1 Adapter, Connector UG-441/U; 1 Case, Test Set CY-2210/U; 1 Cord CG-456/U (6 ft). Confidential clearance required to obtain the APPI. USAECOM.

APPI No. 6 Radio Receiver R-3000(1)/URR: crystal purpose; fixed or mobile use; provides reception of CW, MCW, AM, FSK and SSB signals in the 0.5 to 32 mcs freq range; a.f. output power 100 milliwatts; a.c. input 115 to 230 volts; receiver calibration accurate to within 300 cycles per second; approx 10-15/32" x 19" x 16-19/32" o/a dim; wt approx 75 lbs; per Military Specifications and Government Drawings. Approx 900 drawings are involved and will be available with any solicitation. Production samples, Item Descriptions, etc., are required. FSN formerly 5820-538-7555. Confidential clearance is required to obtain the APPI. USAECOM.

APPI No. 7—Interphone Control C-1611(1)/AIC is completely transistorized basic unit of the 6 place Interphone System containing complete switching facilities, monitoring facilities and emergency talk and listening facilities. Weight of C-1611(1)/AIC is 61.2 pounds, cube is 0.27 cubic feet. Federal Stock No 5831-267-9232 C-1611B/AIC. Confidential clearance required to receive APPI. USAECOM.

APPI No. FA1 Ctg. Cal. .22 Ball, long rifle; a lead bullet, commercial design, contains non-corrosive and nonmercuric primer composition, c/g. case is rifle type: FSN1305-(AO86); no clearance required. FA-USAMUCOM.

APPI No. FA2 Ctg. Cal. .45 Ball M1911 service grade, consists of gilding metal-clad steel or copper-plated steel jacket and a slug of lead antimony; FSN 1305-(A475); no clearance required. FA-USAMUCOM.

APPI No. EA1 Compressor reciprocating power-driven flame thrower 3-1/2 CFM AN-M4, FSN 142592-8560 and 1040-078-5431. Compressor consists of a frame group, an engine group, a compressor group, and an accessory group, a compressor weighs approximately 72 pounds. The entire unit weighs approximately 72 pounds. Secret clearance required. EA-USAMUCOM.

APPI No. EA3 Decontaminating apparatus power driven truck-mounted 400 gallon M9, FSN 4230-818314. Consists of a 400 gallon capacity steel tank with paddle-type agitator, a 20 gallon detergent tank, a high pressure pump, piping, valves, spray guns, nozzles, and hose mounted on an M53 truck chassis. Secret clearance required. EA-USAMUCOM.

APPI No. EA4 Filter unit gas particulate tank 20 CFM M13A1, FSN 4240-964-9061. Consists of pre-cleaner-particulate filter assembly, gas filter heater, various hoses and installation kit. Secret clearance required. EA-USAMUCOM.

APPI No. EA5 Mask protective, Aircraft M24, FSN 4240-808-8799, 4240-776-4384, and 4240-808-8799. Consists of canister, carrier, facepiece, face- and carrying sling. Secret security clearance required. EA-USAMUCOM.

APPI No. FA1 Container for Warhead Section XM63E2 Approximate Envelope of 4'x4'x15', 2000 lbs, shock mounted, steel weldment. FSN 8140-017-4653 PA-USAMUCOM. Secret clearance required.

APPI No. FA2 Sensitive Switch, XM22. Sealed Switch which senses missile separations. Switch plus Cabling and Potted Connector weighs approximately 7 lbs. FSN 8930-034-4297. PA-USAMUCOM. Secret clearance required.

APPI No. PA3 Container for XM467 for Projectile. Aluminum construction with hinged, gasketed cover. Includes compartment for Fuse and Accessories such as Cradles, Clamps, Handles, and Cushioning Material. Overall dimensions, with wood skids attached, 57" long, 22" wide, 20-3/32" high. Inside dimensions are 52.59" long, 16.62" wide, 14.12" high. FSN 8140-020-0462. PA-USAMUCOM. Secret clearance required.

APPI No. AP1 Ammunition Item metal fabrication. Case cartridge 105mm M148B1. One piece design manufactured from spheroidized steel disc, deep drawn, approximately 23.975 inches long by 5.3302 inch outside diameter. Tapered shape, wall thickness varies .085 to .059 inches. Complete heat treated zinc plating and chromate treatment, considered difficult to produce item to applicable specifications. Plant requires highly competent technical staff engineers, metallurgists, chemists, and tool design engineers for mass production of this item. APSA-USAMUCOM. Secret clearance required.

APPI No. AP2 Ammunition Item metal fabrication. Case cartridge 106mm M93B1. Assembly 24.0 inches long by 5.148 outside diameter. 1030 steel strip QQ-5-700 perforated, welded to form tube, head assembled and copper brazed to tube. Heat treatment and stress relief must be performed. Considered difficult to manufacture in accordance with applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP3 Ammunition Item metal fabrication. Projectile HE 175mm M437 mps assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM A27-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP4 Ammunition Item metal fabrication and explosive loaded. Booster M125A1 mps w/loaded M17 detonator. Approximately 2" diameter by 2" long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires tonal approval store, handle, load, explosive detonators. Considered extremely difficult item to produce. APSA-USAMUCOM. Secret clearance required.

APPI No. 1 .22 Caliber (heavy barrel) to be in accordance with Springfield Armory Purchase Description SAPD 213B USAECOM

APPI No. 2 .22 Caliber Automatic Pistol Training in accordance with Springfield Armory Purchase Description SAPD 143B USAECOM

APPI No. 3 Laundry Unit, one Mount, single Trailer Type, M537, in accordance with Security Clearance of Confidential Clearance USAECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated April 6, 1965 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. 8 Cable Assembly CX-4566A/G (250 ft)—a 26 pair No. 24AWG telephone cable 250 feet long, terminated at both ends in a connector U-185B and wound on steel reel RC435/U. Serves as transmission facility for interconnecting system, control boards, switchboards and carrier equipment. FSN 3805 503 0012. Confidential clearance required to obtain APPI. USAECOM.

APPI-9 Reel Unit RL-207—Reel Unit for payout and pick-up of infantry field wire. Gasoline Engine driven. Designed for truck mounting. Specifications and detail drawings available. FSN 3895-892-4583. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 10 Telephone Field Magneto TA 312/PT a rugged, lightweight, waterproof telephone set for use as a local or common battery telephone station set for fixed, mobile and point-to-point communications. FSN 5805 503 0012. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 11 Antenna Equipment RC-292() Modified Plane type, 20 to 38.9 mc frequency range, fixed, base plate mounted. For general purpose use. Applicable to Radio Sets, except navigation and home types, non airborne weight. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 12 Receiver-Transmitter, Radar RT-744(APX-68 is a major airborne component of Transponder System AN/APX-68 which will be used in DOD low-performance fixed and rotary wing aircraft. Equipment restricted to one cubic foot; weight of complete installation not to exceed 24 pounds; primary power 28 volts DC and 50 watts; transmitter frequency 1090 \pm 3.0 mc; receiver frequency 1030 \pm 0.5 mc. Equipment will be capable of receiving and transmitting in Modes 1, 2, 3/A, 3/C and/or 4, singularly or in combination. Modular construction and printed circuits boards will be used to maximum extent. Confidential term, conforming to Specification MIL-Q 9858 and acceptable to the Government, covering the supplies under contract. Confidential clearance required to obtain APPI. USA ECOM.

APPI No. FA4 Cartridge Clip 7.62mm No. 5-round consists of a channel shaped body containing a spring and holds 5 cartridges. The purpose of this clip is to facilitate the loading of magazines for the 7.62mm rifle, M14. No clearance required. USA Munitions Command-FA.

APPI No. FA5 Metal Boxes, M2A1, M19A1 and T46 are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required. USA Munitions Command-FA.

APPI No. FA6, Bandoleers M2 and M4 are olive drab cotton cloth containers used for holding either linked or clipped 7.62mm ammunition. No clearance required. USA Munitions Command-FA.

APPI No. PA4 Switch, Rotary XM21. Switch which provides for a selection of burst options housed in an aluminum box and weighs 3 lbs. FSN 5930-966-8930. No clearance required. PA/USA-MUCOM.

APPI No. AP5 Ammunition Item Metal Fabrication. Case Cartridge 105mm XM 150B1 one piece design 24.31 inches long by 5.133 inches outside diameter at base tapered to 4.115 inches at mouth threaded and counter-bored primer hole in base. Fabricated from a spherodized 1030 steel disc. Case is fully heat-treated zinc plated and chromate treated. No clearance required. USA Munitions Command-APSA.

APPI No. AP6 Projectile Body and Band Assembly M37A 81mm Mortar 10.403 inches maximum length. Consists of four (4) parts body 9 1/2 inches long by 3.182 inches diameter near center pearlitic malleable iron. Yield strength 50,000 PSI minimum 7 percent set elongation at 0.1 percent offset. Adapter base 1.26 inches long by 1.8 inches maximum diameter material carbon steel. Cover base 1.02 inches diameter by .0209 inches thick cold-rolled carbon steel strip brazed 360 degrees. Body requires 100 percent ultrasonic inspection and magna test. Band obturating 3 1/2 inches diameter by .1875 inches thick plastic pipe. Body requires phosphate coating prior to application of paint. No clearance required. USA Munitions Command-APSA.

APPI No. AP7 Projectile WP Smoke M3, 75E2 Body and Band Assembly MPTS 81mm Mortar consists of three (3) components 10.028 inches long by 3.184 diameter nose and tapered to 2.595 inch outside diameter base end 1.835 inch outside diameter with varying wall thickness pearlitic malleable iron. Band obturating 3.5 inch outside diameter by 2.895 inch inside diameter by .1875 inches wide material pipe plastic adapter base 1.26 inches long by 1.8 inch maximum diameter one end threaded 1 1/4 inch material carbon steel alternate pearlitic malleable iron. Adapter is brazed 360 degrees or welded if steel is used. Body casting requires 100 percent ultrasonic and magnetic particle inspection. Finishing cleaning zinc phosphate base exterior—lusterless enamel or lacquer interior acid resistant paint. No clearance required. USA Munitions Command-APSA.

APPI No. 2 Generator Set, 1.5 KW, D. C., Gasoline Engine Driven, Air-cooled, 28 Volt, 2 Wire, fully enclosed by tubular frame, shock-mounted, in accordance with Military Specifications and Drawings. A military standard engine model 12A016-2 will be used by the Government for each production unit. The Generator, including the engine and frame, shall have a minimum efficiency of 72 percent at normal ambient temperature. The successful contractor shall provide and maintain an effective quality control system. Clearance required to obtain APPI. USA-COM.

APPI No. 1 Shelter, Electronic Test Group #3, as defined by Missile Interim Specification (MIS) 5707—Revision A. For use as protective and operating facility for missile electronic test equipment, repair equipment and technicians. Outside dimensions: L. 163 in., W. 83 1/2 in. H. 87 in. Gross Weight: 1850 lbs. (max.). Laminated foam aluminum construction. This equipment presently under development by RCA, Burlington, Mass. Engineering data and specifications will not be available until approximately June 1966. No FSN assigned at this time. Confidential clearance required to obtain APPI. Secret clearance required to produce the item. USAMICOM.

APPI No. 2 Bistatic Radar Receivers (Luneberg Lens) as defined by Missile Interim Specification MIL-10044A, to be used to augment the radar tracking capabilities of the Guided Missile Targets. For use with the MIS 5707 (AP) Guided Missile Target the outside dimensions of this sphere must be 10 1/2 in. diameter and not exceed 9 pounds. For dimensions for other usages, refer to above MIL-10044A. The item is presently being manufactured in the form of polystyrene. No Federal Stock Number Assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. 3 Radar Beacon, X-Band, as defined by Missile Interim Specification (MIS) 10077, dated 30 March 1965, to be used for tracking purposes with MQM-34D Guided Missile. Design and construction of the beacon shall be in accordance with the provisions of Specification MIL-E-10044A. The beacon shall be given emphasis on compactness and shall be mounted on a cylinder having 5 1/2 inch radius and a depth of 11 inches. Weight: 5.5 pounds including external cables and associated plugs. No clearance required to obtain APPI. USAMICOM.

APPI No. 1 Tractor, Cargo, 1 1/2 Ton, 2 Wheel, M105A2. Confidential clearance required to obtain APPI. USATAC.

APPI No. 2 Tractor, Cargo, 1 1/2 Ton, 2 Wheel, M416. Confidential clearance required to obtain APPI. USATAC.

APPI No. 1 Trailer, Ammunition, 1 1/2 Ton, 2 Wheel, M105A2. Confidential clearance required to obtain APPI. USATAC.

APPI No. EA6 Agent, Riot Control, CS 1, FSN 1365-690-8655. Irritant chemical agent which causes severe, but not permanent physiological effects. Used in grenades and irritant dispersers for riot control. Secret clearance required. EA-USAMUCOM.

APPI No. EA7, Mine, Gas, Persistent VX, 2 gallon M23, metal parts, FSN 1345-542-1580. A cylindrical pressure type steel container 12 1/2 inches in diameter x 5 1/2 inches high. Secret clearance required. EA-USAMUCOM.

APPI No. EAB Cryptographic Equipment Destroyer Incendiary, TH4, M1A2 FSN 1375-834-8884. Equipment destroyer is a sheet metal box 21 inches long, by 15 inches wide, by 1 1/4 inches deep, filled with Thermite incendiary mix, fitted with one manual and two electric incendiary fuzes. Secret clearance required. EA-USAMUCOM.

APPI No. EA9 Flie Destroyer, Incendiary, ABC, M4, FSN 1375-219-8564. Incendiary set consisting of 44 celluloid oxidizer boxes, 4 lighter boxes fitted with electric squibs; and 4 racks made of metal links. Secret clearance required. EA-USAMUCOM.

APPI No. FA3 Metallic Belt Links, M13, M14A1 and M17A1 are used with caliber .30, 7.62mm and 20mm cartridges in machine guns. The links are made of steel, processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required. USA Munitions Command-FA.

APPI No. 3 Generator Set (Military Standard), 10 KW, 60 Cycle, AC, single phase, 120 Volt, single phase, 3 phase, 120/208 Volt, 3 Wire, 120/208 Volt, 3 phase, 120/208 Volt. Full inverter type, powered by Government standard 20 HP, Air-cooled, 1200 RPM Engine. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 4 Generator Set (Military Standard), 5 KW, 60 Cycle, AC, single phase, 120 Volt, single phase, 3 phase, 120/208 Volt, 3 Wire, 120/208 Volt, 3 phase, 120/208 Volt. Full inverter type, powered by Government standard 10 HP Air-cooled, 1200 RPM Engine. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 3 Mortar 107mm XM95 high angle fire weapon capable of firing an anti-personnel, anti-materiel screening and illuminating rounds.

The weapons system consists of the XM96 cannon, the XM41 recoil mechanism, the XM130 mount, and XM6 baseplate. Security clearance of Secret is required to obtain APPI. USAVECOM.

APPI No. 1 Generator Tachometer. Electrical output data, 21V AC, at 4200 RPM, 1 cycle per revolution, 25 ohms internal res, 810 MA max current capacity; 2 rotor poles; accuracy FORM 5 PCT; 150 RPM min, 4200 RPM max operating speed range; dim data, 3.750 in. lg excl shaft, 2.375 in. w, 3.469 in. h, shaft extends .312 in. from end of enclosure; end mtg, 4 holes, .283 in. dia, on 1.750 in. by 1.750 in. mtg centers, terminal data, 1, connector receptacle type, right angle; shaft data, sq, .312 in. w across flats; MIL-G-9398A, Amend. 2, Type MB-6; Appl, Generator, Tachometer, Engine. Confidential clearance required to obtain APPI. USAAVCOM.

APPI No. 4 Reel, Shoulder Harness, Inertia Lock. Shall be unidirectional type, left hand reel, 18 in. length of cable travel on drum, designed for 3/16 in. dia. cable, with shoulder harness attachment cable, 22 1/2 in. extended length, with manual lock control assembly. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 5 Shipping and Storage Container, Main Rotor Hub, (Helicopter). Aluminum construction, sealed with gasket, complete with relief valve and humidity indicator, 275 lbs, overall dimensions, 73 in. L, 32 in. H, 33 in. W. 100% Small Business set aside. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 2 Light, Landing, Aircraft, Control-lable. 28V DC, Type MA-3. No electrical rating data for Light; Lamp Accommodation data, 1, screw terminal base, retractable type, 120 deg. angle of extended position, lamp lights at fully extended position, retracting motor and switch incl; O/A dim, 1 1/4 in. lg, 6 1/2 in. w, 4-3/16 in. h; mounted by four .178 in. dia holes irregularly spaced. Confidential clearance required to obtain the APPI. USAAVCOM.

APPI No. 3 Indicator, Pressure. Dial data, 1 scale, hydraulic pressure, 0 PSI to 4000 PSI, 100 graduated increments, finish of graduations, fluorescent numerals and lined increments, 1-13/16 in. dia, dial; pointer data, clock-hand type, fluorescent illuminated; encased, W/O instrument, lamp socket; electrical data, AC, 26 V, 400 Cycles, single phase; connection data, 1 electrical connection, 4 contacts, AN-3106-145-2S; O/A dim. and mtg per MIL-I-7084, Amend 1, MS-28010-5. Confidential clearance required to obtain the APPI. USAAVCOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated May 4, 1965 page 2, No. PSA 3798 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. 13 Communication System AN/USC-3 is a mobile SSB radiotelephone system operating in the frequency range of 132 to 165 mc. It consists of 1 communication central and up to 2 to 48 subscriber stations. Teletype, facsimile radio relay and two (2) or four (4) wire phone lines can be used. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 14 Radio Teletypewriter Set AN/GRC-142 is a 34 ton, shelter mounted Radio Set providing SSB, voice, CW and Radio Teletype Communication. Frequency range 2.0 to 29.999 mc in 1 KC steps. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 15 Radio Set AN/PRC-62 is a man-packed SSB set which provides communication between combat units. The set is continuously tunable in one (1) KC steps over the frequency range of 2 through 18 mc providing 16000 channels, operating power 12 V DC. Equipment is capable of vehicular operation. Confidential clearance required to obtain APPI. USAECOM.

APPI No. 16 Radio Teletypewriter Set AN/GRC 108 is a 34 ton shelter mounted Radio Set providing full duplex capability for SSB voice, CW and Radio Teletype Communication. Primary power 115/230V, 50-60/400 AC, Frequency Range .2.0 to 29.999 mc in 1 KC steps. Confidential clearance required to obtain APPI. USAECOM.

PPI No. 14 Adapter Kit, Erector Launcher, consisting of a carrier steady rest two chassis jack retainers and supports a rear beam assembly two erector-launcher rear axle jack assemblies, guides and bumpers. The carrier steady rest, tubular steel framework approx. 48 x 54 in. in size that supports the launcher approx. 48 x 54 in. in size. The lower end of the steady rest of the erector two mounting plates located on the carrier is quickly released by means of the carrier by means of a cam ring. The chassis jack ball rollers and bumpers are of steel construction approx. 1 1/2 x 1 1/2 x 1 1/2 in. in size and hold the ball retainers have four clamps that are actuated by the four lobe cam ring. The cam ring is operated by a lock handle that can be rotated to open or close the clamps. The rear beam assembly is of tubular steel construction approx. 53 x 10 x 12 in. in size.

CANCELLED OCTOBER 5, 1965

target. This cable is covered by Military Spec. MIL-T-23439. Qualified Products List 23439. No Federal Stock Number assigned. NO clearance required in receive ACN. USAMCOM.

APPI No. 10 Indicator, Electrical Tachometer.
Panel mtg., 0 to 110 PCT O/A range, 100 PCT
equals 4200 RPM, 1 scale, PCT RPM, 0 to 100 range
of numerical marking, 2 PCT smallest increment,
major and minor graduations fluorescent treated,
1 scale, PCT RPM, 0 to 9 range of numerical mark-
ing, 1 PCT smallest increment, major & minor grad-
uations fluorescent. 2 pointers, rotating hand type,
fluorescent treated, case, rd shape. O/A dim., 2 in.
dia., 4-1/4 in. deep. 1 electrical connection, 3 pin
contacts, AND10066-10SL-3P, operating mechanism
per SPEC, MIL-I-25623, TYPE MU-I, flush mtg.,
MIL-I-25623, TYPE MU-I, appl, engine instrument.
act. FSN 6620-557-3023. No clearance required to
obtain APPI. ULSAACVCOM.

APPI No. 11 Indicator, Pressure. Dial, 1 multi-purpose pressure scale, 0 to 50 PSI, 1 lb graduated increments, letters, numerals, & lined increments, fluorescent, pointer, clock-hand type, fluorescent illuminated, encased, W/O instrument lamp socket, electrical, 26V AC, 400 CY, single phase, 1 electrical connection, 4 pin contacts, AND10666-14S-2P, O/A dim., 3 in. L, 2 in. dia., panel mtd, 1.93 in. dia of body, appl. indicator, pressure, engine instrument. Govt Std Data MS28010-1. FSN 6620-514-5334. No Govt data required to obtain APPI. USAACVCOM.

clearance required to obtain FSN
APPI No. 12 Indicator, Temperature, Electrical
Resistance, Dial, 1 scale, temp, minus 70 deg. C to
plus 150 deg. C, 50 deg. graduated increments, finish
of graduations, fluorescent letters, fluorescent illu-
minated, encased W/O instrument lamp socket, 24 in.
28V DC, 1 electrical connection, pin contacts,
AND10066D-14SS-2P, O/A dim., 3.39 in. L, 2.00 in.
dia., clamp mtg., MIL-MS28009, MSS6685-11. FSN
6685-557-0370. No clearance required to obtain
APPL USAAVCOM.

APPI USAVCOM. Indicated Air Speed. Dial, 1 scale, air speed, 0 to 250 knots range, 20 knots graduated increments, finish of graduations, fluorescent numerals and lined increments, pointer data 1, fluorescent finish, W/O instrument lamp, O/A. dim., 2-1/8 in. deep, PORM 1/8 in., 2-3/4 in. dia. panel/mnt. Govt Spec. data, MIL-I-5721A, Govt Std. Data, MS28021-1. FSN 6610-726-0247. No clearance required to obtain APPI, USAVCOM.

APPI No. 14 Indicator, Pressure. Oil pressure scale, 0 to 100 PSI, 5 PSI graduated increments, finish of graduations, fluorescent numerals, letters and lined increments, 1 clock hand type fluorescent illuminated pointer, encased, W/O instrument lamp socket, 26V AC, 400 CPS, single phase, 1 electrical connection, 3 pin contacts, AND10066C-10SL-31L, O/A dim., 2-5/8 in. L, 2 in. dia., clamp mtg., MIL-1-25438, type MO-2, APPI engine instrument, a/cft. FSN 6620-557-0582. No clearance required to obtain APPI. USAAVSCM.

APPLI. USAVCOM.
APPLI NO. 15 Generator, Direct Current. Shunt wound type, self-excited, power output data, 9 KW rating, 30V, 300 AMP. current rating, 4500, 6500 RPM rated speed, CCW rotation when viewed from drive end, enclosure data, closed frame, temp. data, 60 deg. C ambient, not rated for temp. rise, dim. data, 11.186 in. L, excl shaft, 5.90 in. W, 8.000 in. H, shaft extends 6 in. from end of inclosure, shaft data, splined shaft data, 0.867 in. dia., flanged mtd., mtg. data, 6 holes, 0.406 in. dia., equally spaced on 5.000 in. circle, 20,000 ft. max. operating altitude, MIL-G-6162, USAF DWG 58C6226, Gov't Type data, USAF Generator, DC, Type GEU-3/A. FSN 6115-725-1790. No clearance required to obtain APPLI. USAVCOM.

APPI No. 16 Tail Pipe Assembly, Engine Exhaust.
FSN 2990-767-9212, Procurement Package 204-060-
302, Code Identification 81996, FSN 2990-767-9212.
No clearance required to obtain APPI, USAVCOM.

APPI No. 8 Crane, S.W., wheel-mounted. Description: 1 ton, 11 ft 3 in. boom at 10 feet radius; 3 1/2 cubic yds. engine-diesel driven, 4x4 rough terrain. S/N 60122, M/C 52341 (MO). (Revision 1) Applied by 31 Dec. 1965). Confidential clearance required to obtain APPI USAMECOM.

clearance required to obtain APPI No. 9 Generator, Set, Diesel Engine, Description: 45KW, 3 phase, 3 wire, SCL-201208, 230V, 60 Hz, 1000 RPM, 115-538-8776; Purchased from SCL on 2 April 1963. (New Limited Operating and Safety Spec. by 31 Dec. 65). Confidential clearance required to obtain APPI. USAMECOM.

APPI No. 10 Generator Set, Gasoline Engine, Description: 7.5 KW, 2800 RPM, 10 Wheel Mounted, FSN 6115-511-22-01, Description dated 15 Feb. 64. (New Limited Government Military Use, by 30 June 1965) C. 1. U.S. use required to obtain the APPI. D. W. COM.

APPI No. 11 Searchlight. Description: DC, 28V, 100 AMP; XENON Type; Infrared Glass, 22-15/16 inch reflector; MFG for the US Army and M500 Tank, FSN 6230-740-3280. Purchased by the US Army, 28 Feb. 1964 with Expiration Date 30 May 1965 and 13 April 1964 and 13 April 1964. The US Army wanted Co-ordinated Military Spec. by 30 June 1965). Confidential clearance required to obtain the APPI. USA-MECOM.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 1, 1965 page 2, No. PSA 3817 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. 15 Division Hawk Self Propelled Platform Fabrication of One Operator Maintenance Equipment Ground Support Equipment New and modified items of ground support material test equipment. No Federal Stockpile Assistance. Price sized to afford sub-contracting opportunities only. SECRET clearances required to obtain APPI. USAMICOM.

APPI No. 16 Division HAWK Self Propelled Platform Retrofitted for continuous Wave Acquisition Radar. This includes mounting of an Identification Friend or Foe Antenna assembly on the Continuous Wave Acquisition Radar and modification of the CWAR to accept a transmitter for transmission. No Federal stockpile material is synthesized to afford sub-contracting opportunities only. SECRET clearances required to obtain APPI. USAMICOM.

APPI No. 17 Division HAWK Self Propelled Plat-
toon Retrofit for High Power Illuminator Radar.
Provides Mounting bracket for various electronic as-
semblies appropriate to the aircraft. In size and
fabricates components to the aircraft. Includes various elec-
tronic components and mounts. The control
box is about 18 inches in size. No Federal
Stock Number assigned. Synthesized to afford sub-
contracting opportunities only. SECRET Clearance
required to obtain APPI. USAMICOM.

APPI No. 18 Division Hawk Self-Propelled
Platoon Fabrication of Missile Configuration Checker. This
item consists of fabrication of electronic controls,
displays, and a test necessary for checkout and
test of a Hawk Missile. The approximate di-
mension are 2' x 2' x 2'. No Federal Stock
Number assigned. Requested to afford sub-contract-
ing opportunity only. SECRET clearance required
to obtain APPI. USAMICOM.

APPI No. 19 Division HAWK Self Propelled Platoon Retrofit for Launcher. This Retrofit Kit will include repackaging of the standard HAWK Launcher Electronics for mounting on a tracked vehicle of the M113 family with various hydraulic and structural modification. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. SECRET clearance required to obtain APPI. USAMICOM.

USAMICOM. 20 Division Hawk Self Propelled Platoon Retrofit Assault Fire Command Console. This Retrofit Kit will be used to retrofit consoles, displays, and control consoles to the Hawk or Fox. No Federal Security Clearance is required to afford sub-component level access. Only. SECRET Clearance required to obtain APPI. USAMICOM.

APPI No. 21 Cable, Tow Target System, 1000 feet per
tow target, used on the TOWBEE (MQM-34D)
Guided Missile System and the TOWBEE

government specs. in quantities normally required. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-14 Ammunition Item - loaded Item. Retainer, firing line, powder actuated, 2 sec. delay, M14 consists of firing pin assy, consisting of lanyard eye lanyard, release pin firing O-ring pin firing retainer spring. Eye lanyard of corrosion resisting steel bar with various size holes, release pin firing of aluminum alloy rod 2017, T4, with various machined and drilled holes. Pin, firing .015 max. radius .005 flat permitted. Retainer of aluminum alloy 2024, T4 machined various sizes and drilled holes with one surface threaded; spring of steel music wire .009, total 8 coils, heat treat and stress relief at 525 degrees F for 30 minutes; case of aluminum alloy 2024, T4 knife delay assy of steel round bar, grade 1137 machined groove and drilled; disc of chipboard, plain primer, percussion M42, of aluminum alloy rod 2024, T4, loaded with delay composition and ignition composition. Compliance with all local, state and federal safety laws and rules. Must have facilities for wiring, processing and loading of delay components. Difficult to produce. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-15 Ammunition Item - Metal fabrication projectile TP-T 900MM M353 MPTS (4.2" long X 3.537" OD). Body is one piece design 2015 X 3.537" OD, threaded nose rotating band and rotating grooves material, steel, HR carbon bars, excluding bester stock; rotating band 3.55" OD X 2.15" wide X .21" thick material, gilding metal, class B unsealed; windshield cone shape varying wall thickness aluminum alloy die casting comp A380 body and windshield assembled with thread sealing compound, cleaned and painted; plus of aluminum alloy unsealed finish; disc, pilobond 20 sealed into plug with adhesive. Subjected to rigid inspection. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool and die engineers. Very difficult to manufacture to Government specs. in large quantity. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-16 Ammunition Item - loaded Item. Simulant projectile ground burst M115A2 approx 7 1/2" long X 1-5/16" dia. Consists of tube inner of kraft wrapping paper 205 lb. grade A convolute wound with adhesive dextrin between layers, tube outer, same material and fabrication as inner tube; disc of board binders material; tube spacer material and fabrication same as inner tube; tube whistle same material and fabrication as inner tube; sleeve same material and fabrication as inner tube; disc, bottom with 1/2" hole in center material chipboard class 2; washer of draft paper 30 lb. grade B; washer of chipboard class 2; safety clip half ring one end 90 degree angle, other end steel spring wire; sleeve of draft paper grade A, 205 lb. or grade B, 120 lb. ferret of steel strip; disc board binders material; ignition cup of gilding metal tube of kraft paper and step cup shaped of polystyrene plastic; pull cord of nylon thread; whistle load is pressed in increments at 1000 PSI min. Subjected to cold temperature and vibration tests. Fairly difficult to mass produce to applicable specifications. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-17 Ammunition Item - loaded Item - simulant automatic explosion M142 consists of 55 gal steel drum with fiber drum inserts and following subassemblies, five 21 lb bags smoke charge 1 igniter bag of 325 grams black powder class 3 electric squibs inserted in igniter bag one sound unit of sound composition and sound unit initiator; shipping Airtight drum of several two faced C-flue corrugated separators and humidity storing areas. Desiccant can be used instead of controlled temperature, but powder and pyrotechnic experience required. Compliance with all local state and national safety laws required particularly dry-distance requirements. Considered difficult to manufacture to applicable specs. No clearance required to obtain APPI. AP-USA-MUCOM.

APPI No. EA-12 Grenade, hand, incendiary, TH3, AN-M14 FSN 1330-219-8557. The V14 incendiary hand grenade is used primarily to destroy equipment. It can also be used for casualty effect by attaching it to a bursting munition. Secret clearance required to receive APPI. EA-USA-MUCOM.

APPI No. EA-13 Grenade, hand colored smoke, M18, green smoke FSN 1330-289-6851; red smoke FSN 1330-289-6852; violet smoke FSN 1330-289-6853; smoke hand grenade is used to generate colored smoke for signaling. NOTE: Quantity of individual colors to be procured unknown at this time.) Secret clearance required to receive APPI. EA-USA-MUCOM.

APPI No. 5 Armament sub-system, helicopter, 40 mm grenade launcher M-5. The M-5 consists of a UH-1B (Iroquois) helicopter (nose mounted on the rotor, chuting, controls, M-75 grenade launcher and a sight remotely directing the firing of the launcher. SECRET clearance required to obtain

APPI. USAWECOM.

APPI No. 7 Wheel, solid rubber tire, FSN 2530-679-7973. No clearance required to obtain APPI. USATAC.

APPI No. 8 Tire, pneumatic, 750 by 20, 8 PR TBNB, M and S Nylon, Truck and Bus, 8 ply rating, FSN 2610-540-4718. No clearance required to obtain APPI. USATAC.

APPI No. 9 Track, shoe, vehicular, without pin, nut and pad, FSN 2530-690-2682. No clearance required to obtain APPI. USATAC.

APPI No. 10 Pad, track shoe, vehicular, T 130, G 294, G 312, FSN 2530-690-2681. No clearance required to obtain APPI. USATAC.

APPI No. 11 Transmission, mechanical, assembly, 2 1/2 ton, FSN 2520-884-4833. No clearance required to obtain APPI. USATAC.

APPI No. 12 Battery, storage, 12 volt, 6 cell, 45 amp, dry charged, type 6 TN; FSN 6140-057-2554. No clearance required to obtain APPI. USATAC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated July 6, 1965 page 2, No. PSA 3841 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. ME-13 Tractor, Description: Crane-Shovel, Hydraulic, 10 Ton, Rated w/30' boom, 10' radius; 3/4 Cubic Yard, 10' lift; Mil Spec C-15467, Class 1, FSN 3810-188-7060. No clearance required to obtain APPI. USAMEC.

APPI No. ME-14 Tractor, Description: Wheeled, Industrial, 10 Ton, Medium Drawbar Pull; 10' lift; 10' radius; Steerable; 10' lift; 10' radius; Semi-U Hydraulic; 10' lift; 10' radius; Hydraulic Scraper; 10' lift; 10' radius; T-52271(MO), FSN 2420-088-6686. No clearance required to obtain APPI. USAMEC.

APPI No. ME-15 Scraper, Description: Earth, Moving, Towed, Capacity Scoop, Hydraulic, 10' lift; 10' radius; Open Bowl; 10' lift; 10' radius; S-52271(MO), FSN 2420-088-6686. No clearance required to obtain APPI. USAMEC.

APPI No. ME-16 Generator, Description: AC, BQMP, 10 KW, 1.5 KW, 2 Wire Service, 10' lift; 10' radius; Mounted, 10' lift; 10' radius; 52282A(MO), Type 1, Dated 14 Apr 1965, FSN 6115-889-1446. No clearance required to obtain APPI. USAMEC.

APPI No. ME-17 Generator, Description: Engine, 3 KW, 1.5 KW, 1.5 KW, 2 Wire Service, 10' lift; 10' radius; Mounted, 10' lift; 10' radius; 52282A(MO), Type 1, Dated 14 Apr 1965, FSN 6115-889-1446. No clearance required to obtain APPI. USAMEC.

APPI No. ME-18 Truck, Description: Fire, 10' lift; 10' radius; Water Extending, 10' lift; 10' radius; Pump, 10' lift; 10' radius; 400 Gallon, 10' lift; 10' radius; 225-9126, Dated 18 May 1965, FSN 4210-225-9126. No clearance required to obtain APPI. SAMEC.

APPI No. ME-19 Scope, Description: Metc, 10' lift; 10' radius; FSN 1090-000-0000. No clearance required to obtain APPI. USAMEC.

APPI No. AV-17 Transmitter, Pressure, Electrical Data, 26V AC, 400 Cps, Single Phase, Connection Data, Electrical, 1, 3 Pin Contacts, AND100661D-10SL-3P, other than Electrical Connections, 1, 7/16 in. dia. Internal Tube Connection, 1, 1/16 in. dia. External Mtg. Connection, Pressure Sensing Element, 0 to 50 PSI Measurement Range, o/a dim. 4.23/32 in. L, 2-1/4 in. dia., Mtg. Data, 1 Attaching Point, Thd Connection, MIL-T-25577, Type MII-4, Appl., Engine, Instrument, Aircraft, FSN 6620-553-8854. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-18 Indicator, Temperature, Thermo-couple, Dial, 1 Scale, Temp. 0 Deg C to 1000 Deg

C Range, 20 Deg Graduated Increments, Fluorescent Major and Minor Graduations, 1 Pointer, Fluorescent Luminescent Base, W/O Instrument Lamp, 8 Ohm External Resistor required, Chromel-Alumel Thermocouple required, Overall Dim. 3 in. L, appx 2 in. dia. Panel Mtg Type, 1.938 in. dia. of Body, Electrical Connections, 2, Screw Terminal Contacts, 2, Source and Identifying No. in accord with MIL-I-9443B, MIL-I-9443B, Type MJ2. Appl., Indicator, Exhaust Temp, Engine, FSN 6685-557-5910. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-19. Indicator, Pressure, Dial 1, Torque Pressure Scale, 0 PSI to 50 PSI, 1 PSI Graduated Increments, Finish of Graduations, Fluorescent Letters, Numerals, and Lined Increments, Pointer Data, Clock-Hand Type, Fluorescent Illuminated, Incased, w/o Instrument Lamp Socket, Electrical Data, 26V AC, 400 Cps. Single Phase, Connection Data, Electrical, 1, 3 Pin Contacts, AND10066C-10SL-3P, o/a dim. 2.5/8 in. L, 2 in. dia., Clamp Mtg., MIL-I-25578, Type MO-3. Appl., Engine Instrument, Aircraft, FSN 6620-581-2268. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-20. Transmitter, Pressure, Electrical Data, 26V AC, 400 Cps, Single Phase, Connection Data, Electrical, 1, 3 Pin Contacts, AND10066D-103L-3P, other than Electrical Connections, 2, 438 in. dia. Internal Pipe, 1, 1.063 in. dia. External Pipe, Diaphragm Actuated, 0 PSI to 100 PSI Measurement Range, o/a dim., 4.666 in. L, 2.250 in. dia., Stud Attaching Point Mtg., Govt Spec Data, MIL-T-26638, Type TRU-20A, FSN 6620-581-2268. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-21 Indicator Attitude, Remote, Integral Stabilization, 1 Nonluminous Pointer, to show pitch of Aircraft, with Instrument Lamp, Electrical Data, 115 V AC, 400 CPS, single phase, O/A dim. 9.266 in. deep, 5.005 in. wide, 5.253 in. high, panel mounted, FSN 6610-781-8531. Govt Spec. Data: Iroquois Procurement Package No. IND-A5-UH-1. Prospective suppliers will be furnished procurement specification for purpose of fabricating a remote attitude indicator and performing required tests for product approval at no cost to the Government. No clearance required to obtain APPI. USAAVCOM.

APPI No. MI-22. REDEYE Tri-Pack Containers, physical dimensions approximately 19" long, 19" 3/4" high, 21-1/4" wide, 21" deep. The Container, which is made of aluminum, is of RED-EYE weapons and is a complete RED-EYE weapon. The container is made of aluminum construction, and is designed to protect the Weapon during all modes of storage and shipment, including air-drop. It is equipped with carrying handles and quick-opening latches. No clearance required to obtain the APPI. USAMICOM.

APPI No. MI-23. AQM-38A Rocket Target System Missile. The AQM-38A is a Rocket Powered, Radio-Controlled target missile. It is launched from underneath the wing of an aircraft. It may be equipped with a 100-lb Thrust Rocket Motor. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-24. Guidance and Control Set for XMGM-51A (Shillelagh) consisting of: Tracker, Optical, SU-27 (XO-1)M; Converter, Signal Data; Sensor, Rate; Modulator; Transmitter, Optical; Power Supply, PP-4255(XO-1)M; Panel, Test Checkout; Set of connecting cables, consisting of six (6) special cable assemblies. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Confidential clearance required to obtain this APPI. USAMICOM.

APPI No. MI-25. Missile Test Set for XMGM-51A (Shillelagh) consisting of: Test Stand; Control Unit; and Accessory Cable, including Power cable, test cable, and a panel lamp. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-26. Beam Set Hoisting, Drawing No. 10575860, consisting of two XM33 hoisting beams or slings (for lifting the 1st and 2nd stage missile body sections) and one XM32 hoisting beam (for lifting the guidance and control missile body section). The XM33 hoisting beam consists of a strong back beam, two lower beams, and a retractable roller. The lower beams support the missile body section and the erector launcher. The XM32 hoisting beam is used for lifting the guidance and control missile body section to the 2nd stage, and consists of two main aluminum end frames containing missile attachment fittings, attached to a rigid aluminum longitudinal beam. This APPI cancels and supersedes MICOM APPI No. 7. No clearance required to obtain this APPI. Actual procurement is contemplated as a Small Business Set-aside. USAMICOM.

APPI No. AT-13. Sleeve Assembly with Pistons and Rings, G742, G835, FSN 2805-040-2213. No clearance required to obtain APPI. USATAC.

APPI No. AT-14. Shoe Assembly, Track, T97E2 series, FSN 2530-337-6969. No clearance required to obtain APPI. USATAC.

APPI No. AT-15. Battery, Storage, 12 Volt, 6 Cell, 45 amp, Dry Charge, Type 2HN, FSN 6140-057-2553. No clearance required to obtain APPI. USATAC.

APPI No. WE-6. Binocular, T 14 El, General purpose Binocular having a Large Objective Lens and Mirror. The Left Telescope contains a Mil Scale Reticle. The T 14 El has 7 power and a 50 degree field of view. It is Lighter and Smaller than the Standard 70 X 50 binocular. No clearance required to obtain APPI. USAWECOM.

APPI No. AP-18. Ammunition Item-XM151 Warhead Metal Parts Assembly, approximately 13.03 inches long by 2.79 inches maximum outside diameter. Consists of three components, nose, 10.40 inches long by 2.79 inches outside diameter at the base, material pearlitic malleable iron, grade 60003; bourrellet tapers down to 1.68 inches through a 35-inch radius on the ogive beginning 4 inches from the base, material pearlitic malleable iron, grade 60003; base, material pearlitic malleable iron, grade 45010, meter, cup shaped, material, steel plate or steel bar, hot rolled or pearlitic malleable iron, grade 45010, 50007 or 60003; cap, protector, .932 inches long by 1.844 inches maximum diameter at flange, cup shaped, material, polyethylene. Considered difficult to manufacture. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-19. Ammunition Item-Fuze, rocket XM423 metal parts with Detonator MK59, model O with primer XM94E1 with booster MPTS, 4.035 inches maximum length by 1.75 inch diameter. Consists of five (5) major components: striker, pin body assembly, material, aluminum, alloy, 2024, temper T351, Rod; firing pin body assembly, material, aluminum alloy; device, safety and arming, consists of 33 metal parts such as gears, pinions, springs and rotors; screw sealing disc, material, aluminum, alloy 2024; housing booster, about 1.115 inches long by varying outside dimensions, material, carbon steel bar, hot-rolled. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool design engineers. Item considered difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-20. Ammunition Item-Fuze, rocket, XM427 metal parts with detonator MK59. Basic description same as AP-19. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-21. Ammunition Item-Warhead, 2.75 inch rocket, smoke, WP E13, metal parts, assembly about 13.03 inches long by 2.79 inches maximum diameter. Consists of three components: body, 9.69 inches long by 2.79 inches maximum outside diameter nosing down to 2.065 inches through a 35-inch radius, material, seamless steel tubing, condition CDSR, 1020; base, 3.00 inches long by 2.4 inches maximum outside diameter, 1.92 inches inside diameter, cup shaped, material, hot-rolled steel bar, C1018; adapter, 1.62 inches long by 2.06 inches maximum outside diameter, .79 inch bore with 1.455 counter-bore, material, cold-finished carbon steel bar. Considered difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-22. Ammunition Item, Complete Head Assembly for M525/T336E7 and M527B1 Fuze, Point Detonating, a Timing Device, approx 1.5 inches long by 1.38 inches outside diameter. Consisting of a Movement Assembly Containing a Housing Assembly Composed of Housing and Setback Detent, Material, Brass Rod Spec QQ-B-626; a Firing Pin Assembly, Composed of Firing Pin, Material, Aluminum Alloy Rod, Specs QQ-A-200/3A or QQ-A-225/6A, Bushing Retainer, Lower Bushing, and Top Plate Assembly, Composed of Upper Bushing and Top Plate Assembly, Spec QQ-B-613, Drive Plate, Material Brass Sheet, Spec QQ-B-613, Gear and Stop Pin Assembly, and Striker Assembly. Head Assembly also contains Release and Plunger Springs, Material, Wire, Steel, Spring, Music, Spec QQ-W-470. Manufacturers Bidding on Item will require competent Technical Staff of Engineers, Metallurgists and Tool Designers. Item considered very difficult to manufacture. No clearance required to receive APPI. APSA-MUCOM.

APPI No. EA-14. Grenade, hand, riot, OS, M7A3 FSN: 1330-965-0802. The M7A3 CS Hand grenade is used to control riots. It may also be used for training purposes. No clearance required to receive APPI. EA-USAMUCOM.

APPI No. EA-15. Mask, protective, field, M17 FSN: 4240-5 4450, 4451 and 4452. The M17 field protective mask is a combat mask designed to protect the face, eyes and respiratory tract against CBR agents. No clearance required. EA-USAMUCOM.

APPI No 12. CANCELLATION OF APPI: Published previously as APPI No. 12, Last Deflector, P/N 11025685-9, dated 1965 issue of the Commerce Business Daily is hereby cancelled on request of the manufacturer. This component of this Command, this is a Guided Missile Transportable Erector Launcher. No clearance required to obtain this item. USAMICOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated August 3, 1965 page 2, No. PSA 3861 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. WE-7. Mortar, 81 MM L16A1 with mount L5A3 (DEV.) the L16A1 is a high angle fire weapon which will provide close support neutralizing and defensive fire for the Infantry. The weapon consists of a barrel L16A1, Bipod L5A3, and aluminum Base Plate M3. No clearance required to obtain APPI. USAWECOM.

APPI No. MI-27. Intra Red Kits. These kits are used to provide a heat source for Target Guided Missiles for use with missiles having an infra red capability. Design criteria is as follows: Target speed-0; Intensity Level-variable between 20-150 watts per steradian; Alt-5000' MSL; 2.0-2.7 Micron; Illumination $\pm 10^\circ$ Cone; Tgt speed-200 knots; Intensity Level-variable between 5 and 100 watts/ster; Alt 14000' MSL; 2.0-2.7 Micron; Illumination $\pm 45^\circ$ capable of orientation in any direction in lower hemisphere (non directional desired); Tgt speed-200 knots; Intensity level-100 watts/ster; Alt-14000' MSL; Illumination $\pm 45^\circ$ Cone as 3.0-4.0 above 10000' MSL; Tgt speed-400 knots; Intensity level-10-60 watts/ster; Alt 10000' MSL; Illumination $\pm 45^\circ$ Cone capable or orientation in any direction in lower hemisphere. Non directional desired; 2.0-2.7 Micron. Tgt Speed-400 knots; Intensity Level-variable 10-60 watts/ster; Alt 10000' MSL; Illumination $\pm 45^\circ$ cone as before; 3.0-4.0 Micron. All of the above nominal burning time is 30 minutes. No Federal Stock Number assigned. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-28. Flight Monitor, 16 channel (OPN and FSN not available) and Instrumentation Assembly less DOVAP (OPN 110' FSN 1420-788-5418). Flight Monitor A is composed of a 16 sub-carrier oscillator, a power relay section, a pass filter, a telemetry transmitter, and a control unit consisting of a DOVAP transponder and a receiver. No clearance required to obtain APPI. Actual Procurement may be a Small Business Set Aside. USAMICOM.

APPI No. MI-29. Forward Area Acquisition Radar-Chapparral Missile system. Will be a light weight, highly mobile, very low altitude aircraft detection radar, and will be deployed in the forward division area to provide early warning target information to antiaircraft weapons systems. No Federal Stock Number assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-30. Fire Unit Mount-Chapparral Missils System. Unit will consist of 4 modified Sideswinder 1C Missiles (GPE) attached to a suitable launcher mounted on a modified M45 quadrupled 50 Cal. machine gun mount. Vehicle for fire unit will be a modified M45 machine gun mount and modified by contract to support the mount and missile. No FSN assigned. Synopsized to afford sub-contracting opportunities only. Secret Clearance required to obtain APPI. USAMICOM.

APPI No. AV-22. Tank Fuel, Bladder Type, Aircraft. This is a Qualified Products List Item. Three procurements planned. FSN 1560-963-1089, FSN 1560-963-1090, and FSN 1560-963-1091. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-23. Tank, Fuel, Self-Sealing, Aircraft, Left Hand. This is a Qualified Products List Item. FSN 1560-789-4999. No clearance required to obtain APPI. USAAVCOM.

APPI No. ME-21. Semitrailer. Refueling, Erection, and Maintenance Boat, Bridge Driven, 7' 6" x 12' 6" x 12' 6" (M3941) FSN 1940-721-9726. No clearance required to obtain APPI. USAMEC.

APPI No. ME-21. Semitrailer. Refueling, Erection, and Maintenance Boat, Bridge Driven, 7' 6" x 12' 6" x 12' 6" (M3941) FSN 1940-721-9726. No clearance required to obtain APPI. USAMEC.

APPI No. ME-21. Semitrailer. Refueling, Erection, and Maintenance Boat, Bridge Driven, 7' 6" x 12' 6" x 12' 6" (M3941) FSN 1940-721-9726. No clearance required to obtain APPI. USAMEC.

8

APPROVED FOR RELEASE BY NSA/CSS ON 08-22-2012 SUBJECT: riot-type,
COM. No clearance required to obtain APPI, USAWE.

APPI, USAWE

(ATBM Kits, consisting of two Planned Modification
Indicators and many other parts) to provide multi-
plotting board and other indicators and a
Synopsis and other parts. Contract number assigned.
only. Information should be made direct with Western
Electric Company, Burlington, N. C. No clearance
required to obtain APPI, USAMICOM.

APPI No. MI-32. Telephone Cable, APN 8171331,
FSN 1430-334-0331; Telephone Cable, APN 8150481,
FSN 5995-326-5440; Reel & Cable Assy (Reel GFE)
APN 8007322, FSN 4935-800-7327; Reel & Cable
Assy (Reel GFE) APN 8171827, FSN 1430-569-
9889; Reel & Cable Assy (Reel GFE) APN 1430-569-
FSN 1430-819-0553. Procurement may be small
business set-aside. No clearance required to obtain
APPI, USAMICOM.

CANCELLED

nge trad... No F...
rsm... sized to ...
rtm... should be
h Wa... Company, Burlin
o) lanced required to obtain this
DM.

No. MI-34. Radar Set, AN/MPO-43
n/pn 9999000 consisting of five major
(1) Antenna, (2) Transmitter S
Set, (4) Control Panel, Same as
Ant, Elec... Each component has
distr... in New York, N.Y.
for... Synops...
-be... opportunities only. In
the m... direct with General Electric
N. Y. No clearance required to
CANCELLED

No. AV-24. Transmitter, Pressure,
26 V, 400 cycles, single phase. Con-
tacts, Pin, contacts, MS.
other than electrical connections, 2
9-4, Bourdon Tube, 0 to 100 psi
gauge o/a dim., 4-1/4 in. lg., 2-7/16 in.
attaching points, Holes, MIL M
5-840-8606. No clearance required to
I. USAAYCOM.

No. AV-25. Cutout Relay, Engine Generator for 28V System, 300 Amp max output, neg ground polarity, 18 V cut-in, 7 volt drop at 5 amp cutout current, w/incl. case, 5 plain mtg. holes, 196 in. dia., 3 1/2" long. MIL-C-5026B, FSI
No clearance required to obtain this COM.

No. EA-18. Flamethrower, portable, 100-772-5245. The M9-7 Portable Flamethrower

No. EA-18. Flamethrower, portable, 0-772-5245. The M9-7 Portable Flamethrower is used as an antipersonnel weapon. No security clearance required to obtain APPI. EA-USAMUCOM.

No. EA-19. Grenade, hand, smokes. FSN 1330-219-8511. The AN-M8 HQ grenade is used to generate white smoke and signaling. No security clearance to obtain APPI. EA-USAMUCOM

No. AP-29. Cartridge, illuminating, loading assembly. Consists of 4 additional components. 14,335 inches max diameter. Cup & disc assembly, cup, pulcoid, material sheet & cup, material, steel strip, sheet & pulcoid flange. Cup parachute (2) material sheet boxboard. Disc, pulcoid.

No. AP-29. Cartridge, illuminating. Loading assembly. Consists of 4 additional components. 14.335 inch h max diameter. Cup & disc assembly, cup, pulldoor, material sheet w/ coupling, material, steel strip, tempered rolled flange. Cup parachute (2 each), material, sheet cardboard. Disc, p. sheet chipboard. Pin, shear (4 each), point, material, brass wire or rod. Spacer, (2 each) parachute, material. Protective plugs. Projectile: 4 components. Varying diameters, material, seamless.

Additional components: 14,355 inch max diameter. Cup & disc assembly, cup, pulldoor, material sheet boxboard, material, steel strip, tempered flange. Cup parachute (2 each), material, sheet boxboard. Disc, pin, sheet chipboard. Pin, shear (4 each). Point, material, brass wire or rod. Spacer, (2 each) parachute, material. Protective plugs. Projectile: 4 con- veying diameters, material, seamless Adapter, internal thread, material, 8 diameters, varying wall thickness, material hot forge. Adapter Pin, tapered end steel. Illuminant assembly: 12 color reading assembly case, charge (4 inch chipboard & steel). Felt spacer. Rifle wood or plywood. Oval sleeve (Zinc Suspension wire assembly: cable, pins. Suspension Cup, (steel strip). Disc (Steel nails. Parachute Folding Assembly). Parachute Assembly, 3 components (8 each) and crown (parachute cloth 8 each), (nylon cord). Parachute Assembly, 4 components. Eyelets, protective and nails available commercially. On item should have staff including metallurgists, and tool design engineers extremely difficult to manufacture clearance required to obtain APPLICATOR.

No. AP-30. Projectile, High explosive 3329A1, metal parts, 16,393 inch max diameter, 16,393 inch max outside diameter, 3-pieces of body, 3.73 inch inside diameter, 2 inch nose opening, material, non-ferrous steel tube. Adapter Nose, (non-resin threaded. Base, L. H. thread on galvanized steel). Each component minimum yield strength of 45,000 lbs. offset. Interior and exterior clearan- tized. Lusterless enamel or lacquer must withstand 144-hr salt spray. Manufacture. No security

1 inch max outside diameter. 3-ple
of body, 3.73 inch inside diam
2 inch nose opening, material, non-
steel tube. Adapter Nose, (non-res
threaded. Base, L. H. thread on
sulphurized steel). Each component
min yield strength of 45,000 lbs. i
offset. Interior and exterior color
treated. Lusterless enamel or lacque
must withstand 144-hr salt spray.
difficult to manufacture. No security
to obtain APPI.

Complete assembly consists of a body and a lock ring. Major Components: Body is 1.53-inch long, various components, holes & slots (brass). Lock ring, 1.53-inch diameter, two .20 slots one side.

APPI No. 32. Projectile, high explosive, 105MM, M442, metal parts, approx 20.422 inches long x 4.223 inch diameter. Four components body, approx 14.03 inch long x 4.238 inch outside diameter at one end tapering to 2.38 inch at nose. Inside diameter varies from 3.105 inch at larger end and up to 3.505 inch tangent to 24-inch radius tapering down to 2-inch thread at nose. Material, iron, pearlitic malleable casting, Spec MIL-C-46971, minimum yielding strength of 70,000 pounds PSI with 2 per cent minimum elongation. Base, approx. 5.67-inch long x 4.128-inch outside diameter tapering to 3.547 inch boattail (steel). Rotating band blank (sintered iron). Plug, 1.97-inch long x 2.412 inch outside diameter, 2-inch external thread one end & 1.25-inch hexagon head on other (aluminum alloy die casting). Base silver brazed to body. Assembly must withstand hydrostatic pressure test of 6100 pounds PSI & air pressure test 150 pounds PSI. Base forgings and body castings require heat treatment. Inspections: Base & body magnetic particle body casting, ultrasonic. Ballistic tests for separation or breakup of projectile metal parts. Producers require highly competent metallurgists, engineers & tool designers. Item considered extremely difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

washers, rivets and well cups. Balls bonded inside case using devcon B-1835 in a matrix. Stringent load requirements for case and cover plus rigid hot & cold temperature conditioning and testing. Requires high fabricating process capability and metallurgists, plastic technicians and engineers. Considered extremely difficult to produce. No security clearance required to obtain AFPI. APSA-USAMU-COM.

M328A1, six basic components. The component, approx 16-inch long, tubular in shape, approx 4.2 inch diameter, closed end forms base which has protruding threaded boss approx 1-inch diameter x 1/2 inch long. Indicates forging process. Material, steel, non-sulphurized, special bar quality. Spec ASTM A107. Vane, approx 13-1/4 inch long x 1/16 inch thick, metal, stamping of steel strip, ASTM A109. Has 16 holes and notches, center section forms holder for burster casing. Ends of short dimension of stamping formed in "S" pattern. Nose adapter, approx 2-inch long, max diameter 2-7/8 inch, forged in funnel-type shape. Material same as body. Burster Case, approx 13-3/4 inch long x max diameter 1-3/16 inch, minimum diameter 7/7 inch. Material, steel bar ASTM A108. Alternates (Require silver brazing) steel carbon plate, steel sheet & strip & seamless steel tubing. Also requires plastic protector caps for nose & base. Considered difficult to produce. No security clearance required to obtain APPI. APSA-USAMUCOM.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of dated October 5, 1965 page 2, No. PSA 3905 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. MI-36. REDEYE Tri-Pack Containers, physical dimensions approximately 55" long, 19-3/4" high, 21-1/4" wide, weight 68 lbs. empty. The container, which accommodates the complete RED-EYE weapons and the 12 M16 batteries, is of vacuum-formed polyethylene polymer construction, and is designed to protect the weapon during all modes of transport, including airdrop. It is equipped with carrying handles and quick-opening access due to changes and updated information. APPI cancels and supersedes M1COM APPI No. MI-22. No Clearance required to obtain this APPI. USAMICOM.

APPI No. MI-37, Shelter Electronic Test Grc #3, as defined by Missile Interim Specification V 5707-Rev A. This shelter is for use as a part Multi-System Test Equipment (MTE) to provide protective and operating facility for missile electron test equipment, repair equipment and technician Outside dimensions: L. 163 in., W. 83-1/2 in., H. in., Gross weight: 1850 lbs (Max) Laminated for aluminum construction. Due to changes and updates Information, this APPI cancels and supersedes. MICOM APPI No. 1. Confidential clearance required to obtain this APPI. USAMICOM.

APPI No. AT-22. Battery, 2H, 6 Volts, Storage Type, Dry Charged (Standard Type), FSN 6140-050 0902. No clearance required to obtain APPI. USA TAC.

APPI No. AT-23. Tire Chain, Single 9.00 x 1
Type TS, FSN 2540-054-0022. No clearance required
to obtain APPI. USATAC.

APPI No. AT-24. Transmission Assy, 2-1/2 Ton
FSN 2520-884-4833, No. clearance required to obtain
APPI, USATAC.

APPI No. AV-26. Pump, Rotary, Power Driven Vane Type, Horizontal Design, 1.7 GPM, max rate capacity, 2500 RPM, at max rated capacity, 15 PS max discharge pressure, not rated for total dynamic head, w/integral relief valve cw rotation, inlet connection, 1 1/2 inch connection, 1-2 in. npt, 1/2 inch type outlet connection, 1-2 in. npt unmounted w/o power unit, appl, delivers fuel under pressure to aircraft engine carburetors, MIL-P-5355, Type G1 appl, Fuel System, Engine, Acft. FSN 2915-81-7036. No clearance required to obtain APPI. USA AVCOM.

APPI No. AC-27. Klt, Repair, Minor Steerab
Tailwheel, Appl, U-6 Aircraft, FSN 1630-855-907
No clearance required to obtain APPI, USA
AVCOM.

APPI No. AV-28. Bearing Assembly, Flap, Torq
Tube. Appl. U-6 Aircraft, FSN 1560-307-0051, N
clearance required to obtain APPI. USAAVCON

APPI No. ME-37. Case, welded mounted; 5 to
at 10 ft. radius; 1 in. yd. fuel engine drive;
4x4, all wheel drive; 1 in. yd. fuel engine drive;
bulldozers, earth moving; 1 in. yd. fuel engine drive;
1 ea. bulldozer, 1 ea. bulldozer, 24 ft. x 22 ft. x 22 ft.
828-4457. No clearance required to obtain APPI
USAMEC.

APPI No. ME-481. Condition: floor mounting, air cooled, 6000 Btu/hr. capacity, refrigerator, electric motor, 1/2 hp., 230 v., 60 cycle, 3 phase, 60 cycle; 6000 Btu/hr. cooling per hr.; MIL-52250A(MC) 4120-739-4321. No clearance required to obtain APPI. USAMEC.

APPI No. ME-39, Air conditioner for mouth
air cooled; diaphragm; for heat; refrigerant; elec-
tric motor; dry; 1/2 hp; AC 115V, 3 phase
400 cycle; 3600 RPM; cooling fan 25,000 BTU
heating fan 10,000 BTU; 1/2 hp; 115V 4120-791-94
No clearance required to obtain APPI USAME

CANCELLED

APPI No. ME-47. Tractor, full tracked, low speed, diesel engine driven A/A draw bar pull, 74 in min gage tract data, oscillating type, grouser type shoes internal grouser, 18 in. lg. on ground, w/power shift type transmission in combination with Torque Converter, in accordance with MIL-T-52270(MO), FSN 2410-965-5898. No clearance required to obtain APPI. USAEC.

APPI No. AP-42. Ammunition Item - Fuze, BD, M578 MPTS with detonator, approx 4.802 inch long x 1.68 inch dia. Consists of 42 components. Major components include fuze body, approx 3.06 inch long x 1.68 inch dia. with outside thread. Three step counterbore to depth of 2.685 inch, inside dia. .875 inch, internal thread at open end. Material, special quality bar steel with protective finish. Locking segment and striker needle assembly, aluminum alloy components include segment holder approx .825 inch long x 1.356 inch dia., two counterbores stepping down to .260 inch dia. thru hole on longitudinal axis, two .2 inch dia. blind holes 180 degrees apart on opposite end. Striker body, cover, cup-shaped, two segments, each approx 1.0 inch long, .80 inch wide, .066 inch thick, kidney-shaped with various blending radii, of aluminum alloy. Segment holder plate, arming delay assembly, loaded, which includes the government-furnished XM61E2 detonator. Smaller components include escape wheel and pinion assembly, spring-loaded safety plunger and pins. Fuze assembly must withstand jolt, jumble and transportation tests. Locking segment and striker needle assembly and arming delay assembly subject to spin tests. Manufacturer should have engineers, metallurgists and tool designers. Item considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-43. Ammunition Item - Fuze, PI, BD, M530A1, primer and detonator loaded, 1.963 inch long x 1.350 inch dia. Consists of 44 components. Major components; housing rotor, 1.35 inch dia. x 1.44 inch long, machined with various grooves, slots, bores, counterbores and holes, aluminum alloy rod. Rotor, .745 inch dia. x .716 inch long, brass rod, various size holes, slots and counterbores. Shield (blank), aluminum alloy. Insulator, contact, thermoplastic. Plate, bearing (rear) brass strip, various slots, holes and formed tabs. Plate, bearing (front), brass strip, various radii. Leaf number 3, aluminum alloy, various radii. Lead setback, aluminum alloy, various holes and radii. Plunger graze, stainless steel. Small components include nuts, pins, springs, bushing, contacts, and bleeder resistor. Assembly subject to acceleration, and armor functioning, environmental conditioning and safety tests. Effective quality assurance system required. Item considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-44. Ammunition Item - Projectile, 105mm, HEP-T, M393A2 metal parts, 15.84 inch long x 4.128 inch outside dia. Three components; body assembly, carbon steel, 15.34 inch long x 4.123 inch outside dia. varying wall thickness, parabola-shaped nose, two rotating band grooves, counterbore and threaded base end. Rotating band blank, gliding metal. Body and rotating band assembly must withstand internal air pressure test 100 PSI 15 second minimum. Plug, base, aluminum alloy, threaded cavity both ends. Manufacturer requires metallurgists, chemists and tool design engineers. Projectile considered very difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-45. Ammunition Item - Projectile, HEAT-FS, 90mm, M371E1, MPTS. Assy 14.47 inch long x 3.58 inch dia. 13 components. Major components; body, 6.46 inch long x 3.54 inch OD, tapered nose, 3.5 inch ID, tapered wall thickness, knurled rotating band seat, thread both ends, aluminum alloy. Rotating band, rigid polyvinyl. Adaptor, aluminum alloy, truncated cone shape, counterbored and threaded top and bottom. Cone, sheet copper. Spike, steel, 6.7 inch long x 3.88 inch bell-mouth dia. Pin, aluminum alloy, 12.53 inch long x 3.5 inch dia., six webs with T-shaped lugs, internal thread in fin base and external thread opposite end. Other components include conduit, nose cap, insulator and wire lead. Manufacturer requires engineers, metallurgists. Item considered extremely difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. EL-39. Amplifier Power Supply Group OA-3633(G)/GRC furnishes the regulated direct-current (DC) power required for vehicular operation of Receiver-Transmitter Radio Sets AN/VRC-53(G) and AN/GRC-125(G), also provides for mounting of Receiver-Transmitter RT-505(G)/PRC-25. Operates from a 22.0 to 30.0 VDC vehicular battery source. Nominal input voltage 26.0 VDC; frequency range 30 to 76 megacycles. The amplifier provides the amplification necessary to drive a self-contained panel-mounted loud-speaker. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-40. Telephone Test Set TS-1323(G)/PTM-7 a portable battery operated test set intended primarily to check performance of unattended, binary cable repeaters and to locate cable faults in one mile of unreplicated cable span of Special Purpose

Cable Assembly CX-4245/G and to provide communications with attendant terminal points located up to a maximum distance of 40 miles. It is 14 inches long, 12 inches wide and 7 1/2 inches high. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-41. Radar Set AN/PPS-5 is a ground surveillance radar set which includes Receiver-Transmitter RT-692, Tripod MT-2958, Antenna AS-1394, Battery Box CY-3871 and Handset H-226. RT-692 can be operated with or without a Remote Control Unit, battery operated, 6 or 24 D.C. volts. Maximum range 10,000 meters. A lightweight, miniaturized, combat surveillance radar utilizing a silent type power supply. This equipment is capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line of sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. Confidential clearance required to obtain APPI. USAECOM.

APPI No. MI-38. SHILLELAGH - Container Assembly, shipping and storage, guided missile are containers used in packing 152mm missiles and are designed to withstand all conditions encountered in handling, storing and transportation of missiles. No Federal Stock Number assigned. CONFIDENTIAL Clearance required to obtain APPI. USAMICOM.

APPI No. WE-10. Milling, Grinding, Drilling and Slotting Attachment, Size I, for lathes 9 to 13 in. swing, 115V, AC, sgl phase, 60 cye, 1/3 HP, 1725 RPM w/reversing switch and Standard Equipment. FSN 3460-840-1010. No Security Clearance Required. USAWECOM.

APPI No. WE-11. Table, Work, Automotive Maintenance: laminated hardwood working surface, 72 in. lg., 25 in. W, 35 1/2 in. h. FSN 4920-543-7771. No Security Clearance Required. USAWECOM.

APPI No. WE-12. Swap, Small Arms, Cleaning. Cotton. FSN 1005-288-3414. APPI No. Security Clearance Required. USAWECOM.

APPI No. WE-13. Cartridge, 20 cartridge caliber, 402 MM M14. FSN 1005-628-9048. Security Clearance Required. USAWECOM.

APPI No. AT-25. Cover Assembly, Gunshield. Canvas. FSN 2540-692-9029. No clearance required to obtain APPI. USATAC.

APPI No. AT-26. Bushing Assembly, Torque Converter, Reaction Plate. FSN 2520-092-9296. No clearance required to obtain APPI. USATAC.

APPI No. AT-27. Synchronizer, Transmission, Fourth & Fifth Speed. FSN 2520-752-1022. No clearance required to obtain APPI. USATAC.

APPI No. AT-28. Hose Assembly, Rubber, Aviation, Gas Segregation Kit. FSN 2540-884-4841. No clearance required to obtain APPI. USATAC.

APPI No. AT-29. Paulin, Truck, Cargo Body. FSN 2540-740-9679. No clearance required to obtain APPI. USATAC.

APPI No. AT-30. Kit, Repair, Universal Joint. FSN 2520-028-3434. No clearance required to obtain APPI. USATAC.

APPI No. WE-9. CANCELLATION OF APPI. Previously published as WE-9 in October 5, 1965 issue of the COMMERCE BUSINESS DAILY, this APPI is hereby cancelled on request of USAWECOM. USAWECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Dec. 7, 1965 page 2 No. PSA 3948 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EA-20. Carrier, field, protective mask, M15, FSN 4240-591-5151. The carrier is designed to contain the M17 field protective mask and accessories. It is fabricated from cotton duck incorporating several exterior pockets, flap at opening, snap fasteners, slides, snap hooks and several stiffeners held between carrier body and interior lining in accordance with applicable military specifications and drawings. No clearance required to obtain APPI. USAMUCOM-EA.

APPI No. EA-21. Harness, head, C8R1, FSN 4240-690-8765. The head harness is designed to hold the M17 field protective mask in place and consists of a center pad made with two pieces of 2" cotton webbing to which are sewn five pieces of

7/8" elastic webbing in accordance with applicable military specifications and drawings. No clearance required to obtain APPI. USAMUCOM-EA.

APPI No. FA-18. Metallic Belt Links, M13, M14A1 and M17A1 are used with caliber .30, 7.62mm and 20mm cartridges in machine guns. The links are made of steel, processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-19. Bandoleers M2 and M4 are olive drab cotton cloth containers used for holding either linked or clipped 7.62mm ammunition. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-20. Cartridge Clip 7.62mm No. 5-round consists of a channel shaped body containing a spring and holds 5 cartridges. The purpose of this clip is to facilitate the loading of magazines for the 7.62mm rifle, M14. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. FA-21. Metal Boxes, M2A1, M19A1 and T 46 are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required to obtain APPI. USAMUCOM-FA.

APPI No. AP-46. Fuze, proximity, M532. The complete fuze weighs 1.3 pounds, is six inches long and the length of its intrusion is 2.21 inches. The M532 comprises a housing (Body), an antenna, an oscillator, an amplifier, a battery, an arming mechanism, a booster, a PD trembler switch and a switch to deactivate the proximity device. The visible parts of the M532 are a plastic nose cap mounted in an aluminum ring, which is attached to the aluminum fuze base, and a steel cup (extending beyond the base) which contains the S&A device and booster. The base of the fuze screws into the nose of the projectile. The deactivating switch is manually operated by turning the nose cap of the fuze. The electronic head consists of the oscillator and amplifier. The trembler switch is in the subassembly with the amplifier. The battery plugs into the base of the electronic head. The power supply (PS 201A) is a 90 cell thermal battery with a potential of 150 volts. A stiffer setback spring is used. This item (M532) is considered very difficult to make. Manufacturing firms will require a highly competent technical staff, consisting of engineers, metallurgists, technicians and tool design engineers to fabricate and maintain precision tools for production of precision parts and assemblies. The supplier of the thermal battery should be one that has had considerable experience in the manufacture of a highly reliable product. SECRET clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-47. Link, cartridge, metallic belt, 40 MM, M16, consists of two (2) pieces, loop, cartridge link and coupling, cartridge link, and are not assembled together for delivery. Coupling, cartridge link is manufactured from steel C1010 to C1020 Federal Specification QQ-S-633. Part is machined and is collar button shaped, .44 inches by .49 inches and has various grooves and .58 inches spherical radius on one end. Loop, cartridge link, is manufactured from steel 1050, 1050 MOD, Federal Specification QQ-S-777, cold rolled annealed. Material has slots and cut outs in material, .035 inches thick and loop is 1.990 inches by 1.970 inches. Loop is made from two pieces of material projected welded in two places. Optional method is to fabricate in one piece and weld in one place only. Link and coupling require heat treatment and final protective finish in accord with 5.3.1.2 of MIL-STD-171. Link and coupling are considered difficult to manufacture to the dimensional tolerances. Welding is considered difficult. No clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-48. Case Cartridge, 40 MM, M169, 2.09 inches long x 1.624 inches to 1.714 inches diameter with varying wall thickness from .032 inch to .724 inch, with a web in approximate center of case which is cup shape, approximately .136 inch thick with 6 each .108 inch diameter tapered holes equally spaced around the web inside of case. This material is aluminum alloy 6066 chemical comp., par. 3.1, Spec. MIL-A-25493. This item has metal stamping in base, uses gothic capital letters to a minimum depth of .010 inch raised material which shall not exceed .002. The letter to identify item by nomenclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4.3 followed by Finish No. 7.2.2 of MIL-STD-171 dechromate seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595. Plug Base, .473 inch thick x 1.053 inches diameter with a primer pocket .127 inch deep x .209 inch with flash hole .108 inch through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case car-

APPI No. ME-48, Drill, pneumatic, drifter: Dry type, crawler, with air-powered air-motor, 170 cross section, 1/2" shank, 1/2" type, round power output, 1/2" x 1/2" x 13/16" long, driver block accommodates drill length, drifter MIL-D-22233, FSN 3820-585-2225, USAMEC.

face treatment. Competent technical staff required. Item is difficult to produce to government specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-52. Ammunition Item—fuze, rocket, M412, procured with loaded detonator, electric M48, and primer, STAB T-96, 1.86" long x 1.245" dia. x .636" long requires drilling, milling, tapping, forming of slots, and deburring per MIL-F-60005; material aluminum alloy, Spec QQ-A-591, class 10; alternate material aluminum alloy rod, temper 3, Spec QQ-A-365; support rear is 1.058" long x .666" W by approximately .032" thick holes and slots formed by pressing; material cold-rolled carbon steel strip No. 2 finish, 4 or 5 temper, ASTM A109; Rotor is approximately 1" long by .625" diameter, requires drilling, milling, tapping, slotting and deburring; material aluminum alloy, rod, temper T3, composition A, Spec QQ-A-365; support setback, 1.444" x .893" x .032" thick, requires angles, slots and holes; material cold rolled carbon steel strip, No. 2 finish, 4 or 5 temper, ASTM A109; cover is 1.245" x 1.233" long, cold-rolled carbon steel strip No. 2 finish, 4 or 5 temper minor components assemblies to cover consist of plate cover by silver brazing visible 360 degrees on this joint. Requires competent technical staff and is very difficult to manufacture per applicable drawings and specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-53. Ammunition Item—warhead, 66mm, rocket, HE, M18, approx 2-5/8" dia x 9" long. Body head approx 5.10" long x 2.568" dia at large end x 1.129" dia. at small end; material, steel strip FC10009, FS1015 to FS1020, cold rolled and annealed, temper No. 5, finish No. 1 or No. 2, Spec QQ-S-640, Ogive approx 5.79" long x 2.598" dia large end x 1.262" small end; material aluminum alloy sheet, 3003-O, ASTM B209, .070" to .027" thick. L liner approx 3.129" L x 2.604" D, conical shaped, .039" wall thickness; material, copper strip, cold rolled, soft annealed, ASTM B152. Body head and ogive shrunk fit and crimped. Insulator approx. .33" x .986"; material, molding plastic and molded plastic parts, thermo-setting, type CFG. Spec MIL-M-14. Conduit approx 9.43" L x .098" O.D. and .065" I.D.; material, tubing, brass, No. 3 alloy, ASTM B135. Connector Insulator, approx .135" D at large end x .085" I.D. at small end; material, brass strip, composition 1, spring temper, Spec QQ-B-613. Gasket nose, approx .860" I.D. x .125" O.D. x .003" thick; material, gasket, class B, Spec MIL-P-5516, screw Insulator No 2 x 1/4" long, type B, style, Spec FF-S-107, conduit soldered to link, shrink fit head body to liner. Requires competent technical staff and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-54. Ammunition Item—closure for rocket, 66mm, AT, M72, MFD per Specs MIL-A-2350, MIL-STD-8, MIL-STD-9, MIL-STD-10. Material high strength extruded aluminum alloy, 2.94" overall length x 1.84" D at mouth extending .65", receding 60 degrees basic to 1.47" D cylinder, extending 2.29" mouth beveled, modified buttress thread, 1.54" pitch diameter. Inside of cylinder has opening recessed diameter of 1.28" extending .76" with two .065" wide grooves of diameter 1.33". Recessed section also has two holes .10 inch diameter, countersink diametrically opposed to each other. Item is hydrotested. Competent technical staff is required and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-55. Ammunition Item—launcher, rocket, 66mm, M72, 34-1/4" long x approx 4"D consisting of approx 170 components. Inner tube 14" x 2.645" to 2.784" O.D., approx .050" wall; material aluminum alloy extruded, 6061-T6 Spec ASTM B 221. Firing pin housing assembly approx 4" L x .76" D at forward end and 1.14" D at rear end; material aluminum die cast, composition 11, Spec QQ-A-591; outer tube approx 24" L x 2.677" D x .052" wall thickness; material, filament wound epoxy tubing. Requires highly competent technical staff and is extremely difficult to manufacture per applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-56. Ammunition Item—Mine, AT XM24E1, consists of firing device, DEMO, XM61, rocket launcher assy, XM143 & cable assy, vehicle detector; fundamentally it is a complex electro-mechanical device. Requires highly competent technical staff and is extremely difficult to manufacture to applicable specifications. Confidential clearance is required to receive APPI. AP-USAMUCOM.

APPI No. AV-37. Generator, Direct Current, Type GEU-3A in accordance with Mil Spec MIL-G-6162 dtd 23 June 1950 with Amendment 2 dtd 7 Jan 1960. FSN 6115-725-1790. This item is on QPL No. 6162, Suppliers contact Wright Air Development Division, Wright-Patterson Air Force Base, Ohio to have their product tested and quali-

fied prior to solicitation of future requirements by this command. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-38. Indicator, Pressure. Type MO-3 in accordance with MIL-I-25578. Appl., Engine In-gine Instrument, Aircraft. FSN 6620-581-2268 This item is on QPL No. 25578. Suppliers contact Wright Air Development Division, Wright-Patterson Air Force Base, Ohio to have their product tested and qualified prior to solicitation of future requirements by this command. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-39. Transmitter, Pressure. Electrical Data, 26V AC, 400 Cps; Connection Data, electrical connections 1/4 pin contacts, AN 3102-14S-2P, other than electrical connections 2 7/16-20 NF, internal tube connections, actuated by diaphragm, 0 lbs to 50 lbs psi measurement range, o/a dim mtg data as per MIL-T-5882A, Spec Data, MIL-T-5882A, Amend 2, Standard Data, MIL 28005-1; FSN 6620-553-8988. Appl., Pressure, Fuel, Water, Oil, Engine. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-40. Axle, Skid Landing Gear Wheel. Appl: OH-23 Rotary Wing Aircraft. Dwg 1560-OH23-38745070-23 Code 81996. FSN 1560-609-7969. This procurement will be a 100% small business set aside. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-41. Leg Assembly, Skid Landing Gear. Appl: OH-23 Rotary Wing Aircraft. Dwg 1560-OH23-38745070-1; 1560-OH23-3875070-1. Code 81996. FSN 1560-320-5064. No clearance required to obtain the APPI. USAAVCOM.

APPI No. EL-45. Charger, Battery PP-1659/G is a general purpose charger for lead-acid storage batteries. Contained in a perforated metal case, approximate dimensions 11.75x11x12 inches. Silicon type rectifiers; 105 v charging; 12 amp continuous charging; alternate operating requirement: 115 vac. 60 cps, 1 ph; 230 vac, 50 cps; 1 phase. MIL Spec. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-46. Test Set, Battery AN/PSM-13() is used in testing Battery, Dry BA-270()/U and Battery, Dry BA-279()/U. Hand held, single meter, marked good/bad, approximate dimensions 7x2.75x4 inches. Consists of Test Set, Battery TS-1301()/PSM; Bag, Cotton Duck CW-842()/PSM-13; Adapter, Connector U-240()/PSM-13; Adapter, Connector U-241()/PSM-13; Adapter, Connector U-242()/PSM-13. Weight approx 1 pound. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-47. Multimeter AN/USM-223() is a lightweight, portable battery-powered multimeter. Utilizes internal battery source consisting of 6 each BA-1312 and 1 each BA-42. Approximate dimensions 5.375x6.25x8.25 inches; plastic case. Has special features to permit safe testing of transistorized circuits. Consists of Cover, Multimeter CW-855/USM223 and Test Lead Set CX-1331()/U. Confidential clearance required to obtain APPI. USAECOM.

APPI No. EL-48. Cable Assembly, Special Purpose, Electrical CX-1574B/U is part of Handset H-33()/PT and is approximately 5 feet 10 inches long o/a. Has 7 stranded conductors. 2 are 18 AWG and 5 are 24 AWG. Connector, Plug U-11/G on one end; the other has four inches of exposed tinned wire beyond the jacket. MIL Spec item. Confidential clearance is required to obtain APPI. USAECOM.

APPI No. EL-49. Amplifier, RF is a component of Radio Transmitter Type T-195/GRC-19. Approximate dimensions: 8-5/16x5-11/16x9-1/2 inches. 1.5 to 20 mc range; 80 to 125 w power output. Sig C Drawing. Confidential clearance is required to obtain APPI. USAECOM.

APPI No. MI-41. Cable Set for Delag Missile System—Cable sets will be used for interconnecting guidance and control components on the M-60 vehicle. These sets consist of shielded electrical cables with neoprene jacket. Cable lengths shielded with neoprene jacket. Federal Stock Number assigned. No clearance to afford sub-contracting opportunities. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-42. Launcher, Rocket Aircraft, XM-158, Consist of seven 2.75" diameter, 54" long, extruded aluminum tubes. The tubes are secured in a cylindrical configuration by means of 2 sets of cast aluminum segments. Each set of segments being held together by 2 steel straps. The electrical system consists of a 26 pin connector with a separate circuit connected to a firing arm on each tube. The weight of the launcher is approximately 45 lbs and is designed to be suspended from a standard 14 inch bomb rack. Federal stock number 1055-912-3039. Actual Procurement may be small business set-aside. No clearance required to obtain APPI. USAMICOM.

APPI No. AT-36. Carrier, Differential Assembly, Steering, W/Plinions and Spindles Assembly, FSN 2520-753-9886. No clearance required to obtain APPI. USATAC.

APPI No. AT-37. Wheel, Steel, Track Idler, FSN 2530-856-2299. No clearance required to obtain APPI. USATAC.

APPI No. AT-38. Engine W/Container for 10 Ton Truck, FSN 2805-066-4464. No clearance required to obtain APPI. USATAC.

APPI No. AT-39. Coil Booster, (Engine Starter) Filter Engine Assembly, FSN 2920-565-0785. No clearance required to obtain APPI. USATAC.

APPI No. WE-19. Test Stand (Automotive) Generator and Starter; floor md. 6 to 24 volt range, 500 ahp, 100 to 9000 rmp, ac, dc, 22-1/2 hp 330/440 volt, 60 cy, 3 ph.—USAWECOM.

APPI No. WE-20. Test Set, Tachometer—Dwell: 0 to 1000 rpm tachometer scale range, 20 to 50 deg dwell meter scale range, 9 dia W, 12 o/a H, 15 o/a Lg.—USAWECOM.

APPI No. WE-21. Extractor, Ruptured Cartridge Case used for 30 cal, 7.62, 40mm, 76mm, 90mm. USAWECOM.

APPI No. WE-22. Borescope M2, A8413849 used in field maintenance inspections of weapons 57mm through 280mm.—USAWECOM.

No security clearances required on the above APPIs.

APPI No. ME-57. Outboard Motor, gasoline, manual rope starting, retracting, 3 cylinders, horizontally opposed, 11 hp at 4200 rpm; 3 cylinders, 11 hp at 4200 rpm; aluminum or bronze; steel shaft; 12 inch propeller; one reverse speed; 100 degree steering; 12 to 21 gear ratio; w/carrying chest; FSN 2805-132-9079. USA-MEC.

APPI No. ME-58. Gasoline Engine, Screening Plant; gasoline engine, 11 hp at 4200 rpm; 3 cylinders, 11 hp at 4200 rpm; aluminum or bronze; steel shaft; 12 inch propeller; one reverse speed; 100 degree steering; 12 to 21 gear ratio; w/carrying chest; FSN 2805-132-9079. USA-MEC.

APPI No. ME-59. Heater Bltumen; diesel engine driven; semitrailer mtd, 2 wheel, pneumatic tires; pressure atomizing burner; steam: 3 car heating; FSN 3895-221-1760. USA-MEC.

APPI No. FE-60. Compressor, Reciprocating, Power Driven; designed for air: 2 stage; 2 cylinders, angle or vertical design, single acting; 3 cfm free air actually delivered; 175 psi discharge pressure; air cooled; w/gasoline engine; 3 hp; 11 ft capacity air receiver; 12 inch wheel, pneumatic tires; 12 inch diameter attachment for std and large bore; FSN 4910-599-9448, and rubber air hose assy, 5/16 in. ID, 50 ft long; lightweight, max total operating wt not to exceed 1351 lb; intercooler between stages; Mil Std Gasoline Engine Model 1A08, FSN 4310-752-9633. USA-MEC.

APPI No. ME-61. Compressor, Reciprocating, Power Driven; designed for air: 2 stage; 2 cylinders, angle or vertical design, single acting; 3 cfm free air actually delivered; 175 psi discharge pressure; air cooled; w/gasoline engine; 3 hp; 11 ft capacity air receiver; 12 inch wheel, pneumatic tires; 12 inch diameter attachment for std and large bore; FSN 4910-599-9448, and rubber air hose assy, 5/16 in. ID, 50 ft long; lightweight, max total operating wt not to exceed 1351 lb; intercooler between stages; Mil Std Gasoline Engine Model 1A08, FSN 4310-752-9633. USA-MEC.

APPI No. ME-62. Compressor, Rotary, Power Driven; two impeller type, 21 stage; 60 cfm may rate of free air delivery 6.5 psi discharge pressure above atmospheric; air-cooled; w/gasoline engine, 3 hp, flexible couple drive; wheelbarrow frame mtd 2 wheel, pneumatic tires W/ Mil Std Engine Model 2A-016; FSN 4310-542-3329. USA-MEC.

APPI No. ME-63. Tank, Fabric Collapsible; Water, 1,500 Gal; 7 ft 9 in. dia, 54 in. deep; w/staves, guy ropes, cover and ground cloth; synthetic rubber coated, both sides; FSN 3430-171-4401. USA-MEC. No security clearance needed on the above listed items.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Feb. 1, 1966 page 2 No. PSA 3986 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EA-23. Cap, Inlet valve, C20, Type II, FSN 4240-893-3697. The cap, inlet valve C20, assembly is designed for use with a molded rubber facepiece (M17 mask) that has a collar with a bead on the outer surface. The inlet valve assembly fits over the connector of the filter element assembly.

drawn, approximately 23.975 inches long by 5.3302 inch outside diameter at base to 4.121 inch inside diameter at mouth, wall thickness varies from approximately .085 inches to .059 inches, body tapered and necked down, completely heat treated, varying from Rockwell C34 at base section to RB85 maximum at mouth, material, steel, specification MIL-W-3689, machined primer hole and base, zinc plating with supplementary chromate treatment, application of film of wax emulsion to exterior surface, specification MIL-W-3688, ballistic testing required for each lot. Manufacturing firms producing this item will require a highly competent technical staff of engineers, metallurgists, chemists, and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specification. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-2R1. Revision: Ammunition Item—case, cartridge, 106 mm, M96B1, assembly, 24.0 inches long by 5.148 inches outside diameter at base, 3 major components, consisting of tube, approximately 23.65 inches long by 4.698 inches outside diameter tapering to 4.32 inches at the mouth, wall thickness varies from .120 inches at base end to .078 inches at the mouth, steel strip is perforated with 1160 holes .312 inches in diameter at base to 4.121 inch inside diameter mouth, wall thickness diameter and are welded (submerged or inert gas shielded) to form tube, Rockwell hardness requirement of C32 minimum at base to B90 minimum at mouth, material, steel, strip, 1030 specification QQ-S-700, tube is copper brazed to head, 5.148 inches diameter by .93 inches long, .8074 inch diameter primer hole and 1-3/8 threaded filler plug hole, annular groove permitted on small outside diameter for brazing ring, material, steel, non-resulphurized, special bar quality, specification ASTM-A107, plug, 1.375 inch diameter by .40 inches long, 1-3/8 external thread, two .25 inch blind holes at one end, material, steel, special bar quality specification ASTM-A107. Heat treatment and stress relief must be performed on the cartridge case body to obtain the required mechanical properties. The head and tube assembly receives a baked varnish finish after phosphorizing. The plug is zinc or cadmium plated. This case is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-4R1. Revision: Ammunition Item—metal fabrication and explosive loaded. Booster M125A1 mpts w/loaded M17 detonator. Approximately 2 inch diameter by 2 inch long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires final approval store, handle, load, explosive detonators. Considered extremely difficult item to produce. No clearance required to obtain APP. AP-USAMUCOM.

APPI No. FA-2. Projectile M56E2 for 20mm electric HEI cartridge. It consists of body, rotating band and base cover. The body which is made of steel is hollow. The base cover is also fabricated from steel and is welded to the body. Secret clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-23. Fuze M505E3 is used with the 20mm HEI ammunition. It consists of a body assembly, a rotor assembly and a booster holder assembly. The body assembly consists of an aluminum alloy firing pin and a rotor safety spring of corrosion-resisting steel wire contained in a steel body and covered by a sheet steel cover. The rotor assembly consists of a brass rotor containing the detonator. The booster holder assembly consists of a steel holder housing the booster. Secret clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-24. Metallic belt links M12 and M14A1 are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel, meet specific test requirements and are required to ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-25. Bandoleers M1, M2, XM3 and M4 are olive drab cotton cloth containers used for holding either linked or clipped 30 cal. 7.62mm or 5.56mm ammunition. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. AV-42. Spark plug. Electrically shielded resistor type, platinum. In accordance with MIL-S-786B did 13 Mar 62 and MIL-S-7886/1001-2 did 24 May 65. FSN 2925 056-7053. Appl. OH-13 and OH-23 rotary wing Acft. This is a QPL item. Interested parties contact USAAVCOM. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-43. Computer Air navigation. P/N CPU-26A/F. In accordance with MIL-C-5414D did 6605-064-6911. Interested suppliers contact Middle-town Air Materiel Area, Olmsted Air Force Base, Pa. to have their product tested and qualified prior

drawn, approximately 23.975 inches long by 5.3302 inch outside diameter at base to 4.121 inch inside diameter at mouth, wall thickness varies from approximately .085 inches to .059 inches, body tapered and necked down, completely heat treated, varying from Rockwell C34 at base section to RB85 maximum at mouth, material, steel, specification MIL-W-3689, machined primer hole and base, zinc plating with supplementary chromate treatment, application of film of wax emulsion to exterior surface, specification MIL-W-3688, ballistic testing required for each lot. Manufacturing firms producing this item will require a highly competent technical staff of engineers, metallurgists, chemists, and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specification. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-2R1. Revision: Ammunition Item—case, cartridge, 106 mm, M96B1, assembly, 24.0 inches long by 5.148 inches outside diameter at base, 3 major components, consisting of tube, approximately 23.65 inches long by 4.698 inches outside diameter tapering to 4.32 inches at the mouth, wall thickness varies from .120 inches at base end to .078 inches at the mouth, steel strip is perforated with 1160 holes .312 inches in diameter at base to 4.121 inch inside diameter mouth, wall thickness diameter and are welded (submerged or inert gas shielded) to form tube, Rockwell hardness requirement of C32 minimum at base to B90 minimum at mouth, material, steel, strip, 1030 specification QQ-S-700, tube is copper brazed to head, 5.148 inches diameter by .93 inches long, .8074 inch diameter primer hole and 1-3/8 threaded filler plug hole, annular groove permitted on small outside diameter for brazing ring, material, steel, non-resulphurized, special bar quality, specification ASTM-A107, plug, 1.375 inch diameter by .40 inches long, 1-3/8 external thread, two .25 inch blind holes at one end, material, steel, special bar quality specification ASTM-A107. Heat treatment and stress relief must be performed on the cartridge case body to obtain the required mechanical properties. The head and tube assembly receives a baked varnish finish after phosphorizing. The plug is zinc or cadmium plated. This case is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-4R1. Revision: Ammunition Item—metal fabrication and explosive loaded. Booster M125A1 mpts w/loaded M17 detonator. Approximately 2 inch diameter by 2 inch long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires final approval store, handle, load, explosive detonators. Considered extremely difficult item to produce. No clearance required to obtain APP. AP-USAMUCOM.

APPI No. FA-2. Projectile M56E2 for 20mm electric HEI cartridge. It consists of body, rotating band and base cover. The body which is made of steel is hollow. The base cover is also fabricated from steel and is welded to the body. Secret clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-23. Fuze M505E3 is used with the 20mm HEI ammunition. It consists of a body assembly, a rotor assembly and a booster holder assembly. The body assembly consists of an aluminum alloy firing pin and a rotor safety spring of corrosion-resisting steel wire contained in a steel body and covered by a sheet steel cover. The rotor assembly consists of a brass rotor containing the detonator. The booster holder assembly consists of a steel holder housing the booster. Secret clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-24. Metallic belt links M12 and M14A1 are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel, meet specific test requirements and are required to ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-25. Bandoleers M1, M2, XM3 and M4 are olive drab cotton cloth containers used for holding either linked or clipped 30 cal. 7.62mm or 5.56mm ammunition. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. AV-42. Spark plug. Electrically shielded resistor type, platinum. In accordance with MIL-S-786B did 13 Mar 62 and MIL-S-7886/1001-2 did 24 May 65. FSN 2925 056-7053. Appl. OH-13 and OH-23 rotary wing Acft. This is a QPL item. Interested parties contact USAAVCOM. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-43. Computer Air navigation. P/N CPU-26A/F. In accordance with MIL-C-5414D did 6605-064-6911. Interested suppliers contact Middle-town Air Materiel Area, Olmsted Air Force Base, Pa. to have their product tested and qualified prior

to solicitation of future requirements by this Command. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-44. Generator, direct current, self-excited. P/N AN3631. In accordance with MIL-G-6162 did 23 June 50 with amendment No. 2 did 7 Jan. 60. FSN 6115-808-4843. This item is on QPL No. 662. Suppliers contact Bureau of Naval Weapons, Wash., D. C. to have their product tested and qualified prior to solicitation of future requirements by this Command. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-45. Tank subassembly, for fluid tank, main rotor damper, CH-34 rotary wing aircraft, Dwg 1560 CH34-378 5183-3 Cyle 81996. FSN 1560-574-6394. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-46. Canopy Assy, skid gear litter, for OH23 Rotary wing aircraft. Dwg 1680-OH23-033 5133-1; 1680-OH23-033 5153-1 Codo 81996. FSN 1680-317-0598. This is first time breakout from prime manufacturer. Additional sources needed for future solicitation. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-47. Manifold Assy, exhaust system, for OH-23 Rotary wing aircraft, Dwg 1560-OH23-39012 5091-2; 1560-OH23-39012 5153-2H. Code 81996. FSN 2943-055-1617. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-48. Indicator, turn and slip. Integral stabilization, pointer, 1, used to show pitch of Acft. Fluorescent finish, W/O instrument lamp, 28V DC, electrical connection, 1, 3-PIN contact, AN 3102C-1051-3P, O/A Dlm., 5.5 in. deep, 3.5 in. H, Panel Mtd., MIL-1-2805, Type MD-8, FSN 6610-580-7923. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-49. Regulator, Oxygen, diluter demand, for fixed position. Appl., oxygen breathing term ac't. FSN 1660-567-2921. In accordance with MS2062. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-50. Starter, engine, hydraulic. Sperry Rand Corp, Vickers Div., P/N RA 1030-070-3A or equal. Appl., CH-47 rotary wing aircraft. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 2995-072-5652. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-51. Wheel, landing gear. Appl., CH-47 rotary wing acft. Goodyear part number 954 2521 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1630-326-6131. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-52. Brake, single disc, hydraulic. 10.5 in. max lining contact path, 198 in. disc thickness. Left and right hand, for 5.5 in. wheel. Appl., CH-47 rotary wing acft. Goodyear P/N 954 1635 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1630-752-9798. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-53. Panel, protection, electrical system. Non-inclosed. Appl., CH-47 Rotary wing aircraft. Lear Siegler P/N 50185-010 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 6110-890-6020. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-54. Tank, hydraulic fluid. Appl., CH-47 Rotary Wing Acft. Boeing Corp. Vertol Div. P/N 114HS104-2 and Gen. Metal Corp. Adel Div. P/N 416220 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-050-8349. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-55. Valve assembly, winch. Appl., CH-47 Rotary wing Acft. Boeing Corp. Vertol Div. P/N 114HS113-1 and Garrett Corp. Afterservice Div. P/N 124648-1 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-716-8614. No clearance required to obtain the APPI. USAAVCOM.

APPI No. AV-56. Pump, axial, piston, hydraulic, AFT-TRANS. Assy. Appl., CH-47 R. W. Acft. Sperry Rand Vickers Div., P/N PV62L009J and Boeing Corp. Vertol Div., P/N 114HS130-9 or equal. Interested firms submit data sufficient for determination of equality to USAAVCOM. Attn: SMOSM-PACRC NLT 28 Feb '66. FSN 1650-016-2886. No clearance required to obtain the APPI. USAAVCOM.

APPI No. 28. CANCELLATION OF APPI: published previously as APPI No. 28. 1. Monitor, 16 Channel, and Instrumentation Assembly less DOVAP synopsis, P/N 1650-016-2886. 2. On request of the Commanding General, USAVCOM, Command with statement that the stock of 9 channel Flight Monitor, and related equipment will be converted to 16 channel, thus eliminating the requirement as indicated in APPI MI-28. USAMICOM.

APPI No. MI-43. Wiring Harness OPN 10102456 Sergeant Missile System. This is a multi-branched cable harness carrying all critical information in the northwest quadrant of the guidance section of the missile. It consists of numerous copper conductors with high performance in missile flight environment. FSN 1420-560-6540. Procurement may be small business set-aside. No clearance required to receive APPI. USAMICOM.

APPI No. MI-44. Wiring Harness OPN 1006153 Sergeant Missile System. This is a multi-branched cable harness carrying all critical information in the northeast quadrant of the guidance section of the missile. It consists of numerous copper conductors with high performance in missile flight environment. FSN 1420-560-6532. Procurement may be small business set-aside. No clearance required to receive APPI. USAMICOM.

APPI No. MI-45. Cover, Missile Access Cover OPN 9125091 Sergeant Missile System. This cover is a fiberglass shell, lined with aluminum foil, approximately 54" long and is mounted on a pivot approximately 45° of the north. It is a critical flight item, it must be set in the missile flight environment. FSN 1420-706-9037. Procurement may be small business set-aside. No clearance required to receive APPI. USAMICOM.

APPI No. MI-46. Cover, Missile Access Cover OPN 9125662 Sergeant Missile System. This cover is a fiberglass shell, lined with aluminum foil, approximately 54" long and is mounted on a pivot approximately 45° of the north. It is a critical flight item, it must be set in the missile flight environment. FSN 1420-706-9037. Procurement may be small business set-aside. No clearance required to receive APPI. USAMICOM.

APPI No. AT-40. Shaft, Propeller Assembly, W/ Universal FSN 2520-752-1043. No clearance required to obtain APPI. USATAC.

APPI No. AT-41. Sprocket, Drive Track, FSN 2520-293-5136. No clearance required to obtain APPI. USATAC.

APPI No. AT-42. Curtain End, Cargo Body Assembly (Side Vehicular Rear), FSN 2540-741-6339. No clearance required to obtain APPI. USATAC.

APPI No. AT-43. Pump, W/Filter Assembly, Fuel Electric, Engine, FSN 2910-678-1856. No clearance required to obtain APPI. USATAC.

APPI No. WE-23. Gages, headspace and timing, Cal. .50 machine gun FSN 4933-535-1217. USAWE-COM.

APPI No. WE-24. Regulator Kit, Charging, M2 System FSN 4933-856-5593. USAWE-COM. No security clearances required on the above APPIs.

APPI No. ME-64. Water pump, motorized, dual purpose, 12-24 V DC and 12-24 V AC. Telephone head set: W/Accessories, carrying case, extension leg tripod and repair kit, FSN 6675-606-3379. USAWE-COM.

APPI No. ME-66. Roller, motorized: gasoline engine driven: tandem, 2 rolls: 5 to 8 ton: 50 in wide steering roll: 50 in. rolling width: Military specification MIL-R-10550, Type II, class I, FSN 3895-194-8534. USAWE-COM.

APPI No. ME-67. Roller, motorized: 3 Wheel type: gasoline engine driven: 0 to 2 ton: Hydraulic steering: 70 in. rolling width: 50 in. min dia., 42 in. min. dia. FSN 3895-194-8534. USAWE-COM.

APPI No. ME-68. Tractor: Full tracked, low speed: diesel engine driven, light drawbar pull: Oscillating track: 60 in. min. gage: Air droppable: W/Bulldozer, cable, tilting, outside track frame mtd. with back rip scarifier teeth: drawbar, fixed.

power control unit, cable, front, 1 drum: FSN 2410-901-3528. USAWE-COM.

APPI No. EL-50. Radio Terminal Set AN/TRC-112 is a transportable Tropospheric Radio Terminal Set housed in a shelter. Provides single channel plus teletype communications up to 200 miles and 12/24 channel PCM up to 100 miles. 1 KW output; dual space and angle diversity. ECOM Specs. No FSN. CONFIDENTIAL clearance required to receive APPI.

APPI No. EL-51. Converter, Telephone Signal CV-1543 (-) G is a solid-state 12-channel signalling device used in terminal stations to provide ring-down and/or supervisory signalling. ECOM Spec. No FSN. CONFIDENTIAL clearance required to receive APPI. USAWE-COM.

APPI No. EL-52. Multiplexer TD-202 (-)/U combines PCM signals from one or two 12-channel Multiplexer TD-352 (-)/U into one PCM signal for use over Radio Relay Systems such as the Radio Set AN/GRC-50. ECOM Spec. No FSN. CONFIDENTIAL clearance required to receive APPI. USAWE-COM.

APPI No. EL-53. Multiplexer TD-203(-)/U combines PCM signals from one or two 48-channel Multiplexer TD-353 (-)/U into one PCM signal for use over Radio Relay Systems. ECOM Spec. No FSN. CONFIDENTIAL clearance required to obtain APPI. USAWE-COM.

APPI No. EL-54. Multiplexer TD-352 (-)/U is a 12-channel Multiplexer capable of accepting 12 voice signals, samples them, codes signal into binary code, and passes result to Multiplexer TD-202 (-)/U for transmission over radio facilities or to Multiplexer TD 204 (-) U for transmission over cable facilities. ECOM Spec. No FSN. CONFIDENTIAL clearance required to receive APPI. USAWE-COM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated March 1, 1966 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AT-44. Converter Assembly, Heater & Exhaust Blower, FSN 2520-040-1976. No clearance required. USATAC.

APPI No. AT-45. Generator, Alternating Current, 28V, 100 Amp, FSN 2920-314-0556. No clearance required. USATAC.

APPI No. AT-46. Shock Absorber, FSN 2540-690-2756. No clearance required. USATAC.

APPI No. AT-47. Shock Absorber, 1-1/2 Ton Bn, 400 Gals, FSN 2540-690-2756. No clearance required. USATAC.

APPI No. AT-48. Shock Absorber, 1-1/2 Ton Bn, 400 Gals, FSN 2540-690-2756. No clearance required. USATAC.

APPI WE-25. Barrel, for Rifle M1. No clearance required. USAWE-COM.

APPI WE-26. Rod, Section Cleaning, Rifle. No clearance required. USAWE-COM.

APPI WE-27. Rod, Section Cleaning, Rifle. No clearance required. USAWE-COM.

APPI WE-28. Rod, Section Cleaning, Rifle. No clearance required. USAWE-COM.

APPI WE-16. Cancellation of APPI: Stock Sub-Assembly, Gun Shoulder for Rifle, 7.62MM, M14, FSN 1005-754-6462. Cancellation due to change in requirements and specifications. USAWE-COM.

APPI No. MI-47. Hipar Heat Exchangers—NIKE HERCULES—Modification Kits representing numerous items. Synopsized to afford sub-contracting opportunities only as this is a sole source procurement. No Federal Stock Number assigned. No clearance required to obtain APPI. USAMICOM.

APPI MI-16. Cancellation of APPI: Published previously as APPI No. 16, Division HAWK Self Propelled Platform, Radar for the Wave Acquisition and Control, the June 1965 issue of the Commerce Business Daily is hereby cancelled on request of the Command. This cancellation is with the understanding that the retrofit and modification will not be performed thus eliminating the requirements indicated in APPI-16. USAMICOM.

APPI MI-17. Cancellation of APPI: Published previously as APPI No. 17, Division HAWK Self Propelled Platform, Radar for the Wave Acquisition and Control, the June 1965 issue of the Commerce Business Daily is hereby cancelled on request of the Command. This cancellation is with the understanding that the retrofit and modification will not be performed thus eliminating the requirements indicated in APPI-17. USAMICOM.

APPI MI-18. Cancellation of APPI: Published previously as APPI No. 18, Division HAWK Self Propelled Platform, Radar for the Wave Acquisition and Control, the June 1965 issue of the Commerce Business Daily is hereby cancelled on request of the Command. This cancellation is with the understanding that the retrofit and modification will not be performed thus eliminating the requirements indicated in APPI-18. USAMICOM.

APPI No. AV-57. Tire, Pneumatic, Aircraft Equipment, Main Wheel Application, Low Pressure Type, 8.50x10, 8 Ply, Type 3, designed for use with separate inner tube, in accordance with MIL-T-5041D W/Supplement #1 dtd 31 Jul 62. QPL List No. 5041, Latest Revision. FSN 2620-528-8875. No clearance required to receive APPI. USAV-COM.

APPI No. AV-58. Parachute, Personnel, Troop Back-Pack, 35 Ft. Dia., Olive Drab, Cotton. This is a QPL item under MIL-P-6645E (USAF). Part of this procurement will be set aside for Small Business and Labor Surplus Area concerns. FSN 1670-753-3727. No clearance required to receive APPI. USAV-COM.

APPI No. AV-59. Jack, Hydraulic Tripod, 10 Ton Rate Capacity, 36 In. Low H., 26 In. Hydraulic Lift w/Screw Extension 18 In. H. w/Leg Extensions, 4 Sets, 152 In. Max. Extended H., Removable Pump, w/Pump. In accordance with MIL-J-7400A (USAF) Type B-6, and USAF Drawing 50 J25178. FSN 1730-516-2019. This will probably be a Small Business Set Aside. No clearance required to receive APPI. USAV-COM.

APPI No. AV-60. Bushing, Sleeve, Style 6A, Sect. B, Rockwell Hardness not rtd, Dim. 4.392 in. max., 4.385 in. min., ID .6266 in. max., .6261 in. min. OD .572 in. o/a lg. .822 in. max., .802 in. min. OD Flange, .126 in. max., .124 in. min. w/Flange, Corners Sect. A, Rgd 191, Outside Left Corner, Shape Chamfered, 1/16 In. 45 deg. Outside Right Corner of Body, Shape Chamfered, 45 deg. Flange Body Corner, Shape Round, Surfaces, Sect. B, Rgd 191, ID and OD surface of body, 63 micro-inches AA, left end surface of body and flange, right end surface of left flange, OD surface of flange, right end surface of body, 125 micro-inches AA. Appl., Rotary Wing Head, Helicopter, FSN 1615-846-9308. This item is a first time breakout. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-61. Brace, Skid Gear, Rear-Center. Application, OH-23 Helicopter. In accordance with Drawing No. 1560-H23-326D. FSN 1560-593-9089. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-62. Rack, Bomb, Aircraft. Designed for Bomb Projectiles. Electric releasing control, 2-point suspension, hook suspension, 1 projectile accommodated, 38,000 lb. ultimate load capacity, 30,000 lb load electrical release load capacity; electrically operated DC, 18 to 28V; o/a dim. 17-3/32 in. lg., 1-13/32 in. w., 3-11/16 in. h., mtg. 2 holes .376 in dia in accordance with MIL-R-9409B, Type MA-4A and Dwg No. 55J4312. FSN 1095-141-9328. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-63. Indicator, Torque Meter, Engine, Dual Application, CH-47 Aircraft. In accordance with MIL-I-27683. FSN 6620-959-6603. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-64. Tank Assembly, Fuel, Appl., CH-47 Rotary Wing Aft. U. S. Rubber Co. Part No. FRC 46853 or Boeing/Vertol P/N 114 PS 420-43 or equal. FSN 1560-018-0096. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-65. Resistor, Variable, Linear, Precision, Application, CH-47 Rotary Wing Aft., Boeing/Vertol P/N 114ES205-1 or Humphrey Inc. P/N RP670101-1, or Bourns Lab. Inc. P/N 109224-9-40-141-141 or equal. FSN 5905-901-5273. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-66. Heater Package, Aircraft, Application CH-47 Rotary Wing Aft. Janitrol Aft. Co. P/N 65C30 or equal. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. FSN 1680-895-9319. No clearance required to obtain the APPI. USAV-COM.

APPI No. AV-67. Fan Assembly, Transmission Oil, Application, CH-47 Rotary Wing Aft. Boeing/Vertol P/N 114DS450-2 or Joy Mfg. Co. P/N X702-3828 or equal. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. FSN 1560-472-7291. No clearance required to obtain APPI. USAV-COM.

APPI No. AV-68. Motor, Hydraulic, Variable Displacement, 3,860 RPM, 3,000 PSI, Application, CH-47 Rotary Wing Aft. Sperry Rand Part Number 8F36-3999-3022 or equal. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. No clearance required to obtain APPI. FSN 1650-756-1046. USAV-COM.

APPI No. AV-69. Indicator, Temperature, Oil Drive System, Application, CH-47 Rotary Wing Aft. Simmons Aerocessories Inc. P/N 321801-03019 or equal. FSN 6695-923-9046. Interested firms submit data sufficient for determination of equality to USAV-COM, Attn: SMOSM-PACRC nlt 31 Mar 66. No clearance required to obtain APPI. USAV-COM.

No. ME-7R1. Crane shovel. 20 ton. 7/10 ft. boom. 1/2 hp. engine. gasoline. specific. 1115C-10486, type 0-54-10. 25 clearance requir

APPI No. ME-82. Pump, centrifugal; radial flow; self-priming; 125 GPM, max rated capacity at 3600 RPM and 10 ft. suction lift; 50 ft. rated total dynamic head; horizontal design with one (1) impeller, single stage, single suction and CW rotation; one (1) inlet connection, Thd. Type 2 in. Npt size; one (1) outlet connection, Thd. Type 2 in. Npt size; frame mtd; 3 HP mil std gasoline engine in accordance w/MIL-P-52109B; FSN 4320-542-3347. No clearance required to receive APPI. USAFEC.

APPI No. ME-83. Generator Set, diesel engine, 150 KW, AC, 0.8 power factor, 120/128 v, 3 phase, 4 wire service, 60 cycle; liquid cooled, skid mtd; open; 1200 RPM; w/remote control panel; radiator separately located; 15% overload capability; precise power, in accordance with specification MIL-G-52422(MO); FSN 6115-752-2089. No clearance required to receive APPI. USAFEC.

APPI No. ME-101. REVISION laundry unit, trailer mounted, capacity 120 lbs w/canvas cover, capacity 120 lbs (dry weight) of laundry per hour in 10 min. w/remote control MIL-L-0040635A; FSN 4320-542-3347. No security clearance required to receive APPI. USAFEC.

APPI No. EA-25. Decontaminating and Reimpregnation Kit, individual, M13, FSN 4240-907-4828. The kit, individual, M13, is designed to contain the following: A small, sealed nylon plastic coated bag with fuller's earth in a pad or sachet made of polyethylene on the inner side and a woven dacron orlon cloth on the outer side; a large, heat-sealed plastic bag containing two knitted orlon sacks with impregnated and plastic sealed capsule of dye, also, a cutting blade molded in a plastic sheath. All components will be inserted in plastic container 1-3/4" x 2-3/4" x 4" high. No security clearance required to obtain APPI. EA-USOMUCOM.

APPI No. AP-67. Ammunition Item—Cartridge HE M374, Mpts for 81MM Mortar Body Assembly, 10,403 inches maximum length by 3.184 inches outside diameter consists of 4/ components parts, body, 9.50 inches long by 3.182 inches diameter near center tapered to 2.38 inches diameter at front end and 1.835 inches at rear end with varying thickness from .185 inches to .25 inches, nose thread 2.00-12NS-1B, end bore to 1.62 inches for brazed in adapter, material pearlitic malleable iron grad 50007, Specification MIL-C-46971 physical properties yield strength 50,000 PSI minimum, .1 percent off-set elongation-7 percent

minimum adapter, base, 1.26 inches long by 1.800 inches maximum diameter, one end threaded 1-1/8-18NEF-2A, material, carbon steel, special bar quality, ASTM Specification A107, or A108 applies, alternate material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 40,000 PSI minimum, .1 percent offset, 10 percent minimum elongation, mechanical property requirements of MIL-C-46971 apply for alternate material, cover, base, 1.02 inch diameter by .0209 inch thick, material, cold rolled carbon steel strip, temper number 4, ASTM Specification A109 applies, Adapter, base is brazed 360 degrees to withstand 5000 PSI hydrostatic test and 150 pound PSI air test. BOD requires 100 percent ultrasonic inspection and magnaglo. Band obturating, 3.500 inch diameter by .187 inches thick, material, pipe, plastic, Specification PA-PD-2521, body assembly prior to assembly of band, obturating requires phosphate coat and paint. Manufacturing firms bidding this item will require a highly competent staff of Engineers, Metallurgists, Chemists and Tool Design Engineers to design, fabricate and maintain precision tools required for mass production of this item. This item is considered very difficult to produce to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-68. Ammunition Item—Projectile, body and band assembly, WP, M375, 81MM consisting of two components: Body, 10 inches long, varying in outside diameters from 2.595 inches at nose to 3.115 inches on bourrelet to 1.705 inches at the base, varying wall thickness .235 inches on bourrelet, .20 inches at mid-section, .185 inches at ASE section, machined internally in nose section to accept press fit burster casing, threaded externally at base to accept fin assembly, outside diameter of body grooved 360 degrees to accept obturating band material, steel, non-resulphurized, carbon bar, hot-rolled, special quality, ASTM Specification A107 alternate material, steel, non-resulphurized, Specification MIL-S-11310, yield strength 60000 PSI, 1 percent offset, 12 percent elongation. An obturating band 3.500 inch outside diameter by .187 inches thick, inside diameter 2.895 inches, six 60 degree by .037 inches deep grooves equally spaced inside of band, material, pipe, plastic, Specification PA-PD-2521. Firms bidding this item must have qualified Metallurgists, Chemists and Tool Designers to fabricate this item in accordance with applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-69. Ammunition Item - Projectile, TP-T, M489, 105MM Assembly, 25.88 inches long by 4.13 inch diameter and consists of 8/ components, body, 8.09 inches long by 4.128 inch diameter by 3.052 inch inside diameter with inside threads both ends, material, steel carbon, semi-finished, ASTM-A273-58T or special bar quality

ASTM-A107 or steel tubing, seamless, Specification QQ-T-830. Base, 9.33 inches long by 4.111 inch diameter tapered to 1.44 inch thread both ends on outside diameter, material, aluminum alloy, forging ASTM-B247 or ASTM-B211 or B221. Spike, 7.610 inches long by 4.111 inch diameter head section, stem section, 1.322 inch diameter tapered to 1.2 inch diameter 6 inches long, thread on both ends of diameter, material, aluminum alloy forging ASTM-B247 or B211 or B221. Fin, 3.69 inches long by 4.083 inch diameter 1/6" webs with "T" shape lugs, inside threads both ends, center section .96 inches diameter, material, aluminum alloy extrusion ASTM-B221. Obturator, .29 inch diameter by 3.391 inch inside diameter by .706 inches long, material centrifugally cast clear tubing, product of Polymer Corporation, Reading, Pa. or product of National Vulcanized Fiber Company, Wilmington, Delaware. Tubing to be made from Zytel 101 or 42, product of E. I. du Pont de Nemours Co., Wilmington, Delaware. Cup nose flanges, 1.57 inch diameter by .125 inches thick, body diameter, 1.17 inch by .67 inches long 3/4 inch 16 thread by 5/8 inches deep, material, aluminum ASTM-B211 or B221. Plug, 7/8 inch diameter by .34 inches long by 5/16 inch bore, material, aluminum alloy, ASTM-B211 or B221. Disc, .435 inch diameter by .004 inches thick, material, brass strip alloy NBR 6, ASTM-B36. Assembled projectiles palletized for shipment. Manufacturing firms bidding this item will require a highly competent technical staff of Engineers, Metallurgists, Chemists, Tool Engineers for mass production of this item. This item is considered difficult to produce. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-70. Ammunition Item—Projectile Assembly for Cartridge, 40MM, practice, M385, consists of body and blank band. Body is approximately 3.164 inches long X 1.602 inches diameter with boat tail shape base and rounded OSE with band seating groove approximately .364 inches wide. Material, aluminum alloy bar 2024, T351-ASTM B211-63, protective finish No. 722 of MIL-STD-171 Blue No. 35109 approximately of Fed Std-595. Blank band is tubing, copper, seamless, specification WW-T-797. Band is approximately 3.65 inches long X ID 1.56 inches .072 inches wall thickness. Blank band is to be swaged to body and two grooves machined around the band. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-71. Ammunition Item—Projectile, 40MM, M384, MPTS, body assembly, 40MM, M384, MPTS, consists of body and blank band. Body is approximately 1.855 inches long X 1.558 inches maximum diameter. Body is boat tail with knurled groove, .366 inches wide around body approximately .674 inches from mouth of body. Boat tail base and side walls are approximately .107 inches thick. Body has inside threads 1-15/32 - 24NS - 2B at top. Internal base surface deeply embossed with a radial cart wheel configuration. Body is to be impact extrusion material 1030 steel ASTM 107-61T special drawn from plate material, 1030 steel plate, specification QQ-S-700B. Blank band is tubing copper seamless, Specification WW-T-797, .365 inches long X ID 1.56 inches and .072 inches wall thickness. Blank band is to be swaged to band seat of body and two grooves machines in band and one groove machined in body rearward of the band. Body assembly to be phosphate coated and painted olive drab. The item is considered difficult to manufacture to drawing and specification requirements, CONFIDENTIAL clearance is required to receive this APP. AP-USAMUCOM.

APPI No. EA-26. Hood, Field, Projective Mask M6A2 FSN 4240-999-0420. The projective mask hood M6A2 is made of Butyl-Rubber Coated Nylon Cloth with a Frontal Zipper Closure and 4 openings in the front of the hood which fit around the elexens frame, the inlet valve assemblies and voice-mitter-outlet valve assembly of a protective mask. The manufacturing of the hood requires considerable technical and quality workmanship especially in the area of the Butyl-Rubber Coated Nylon Material and the sewing and stitching of this material into a hood. Proposed procurement will be under a 100 percent small business set-aside. No Security Clearance required to obtain APPI. EA-USAMUCOM.

APPI No. AV-71. Altimeter and case assembly, portable. In accordance with TMC drawing 6610E G000. REVISION B. This item is on QPL No. 6863-4. FSN 6610-772-0507. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-72. Tire, pneumatic, Aircraft Equipment, Main wheel application, low pressure type 11.00 x 12 size designation, 8 ply rating, nylon cord, ribbed tread pattern, quantity of ribs not required, designed for use W/O inner tube, open base, MIL-T-5041, Type 3, QPL No. 5041, FSN 2620-752-8651. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-73. Precoiler, pickler, Multi-purpose, 28V DC, complete W/gun assembly and accessories. In accordance with MIL-P-58050, Type 1. Procurement will be 100% small business set aside, FSN 4920-769-3376. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-74. Tire, pneumatic, Aircraft Equipment, nose wheel application, low pressure type, 7.50 x 10 size designation, 6 ply rating, nylon cord, ribbed tread, 7 ribs, designed for use W/O inner tube, open base, MIL-C-5041B, type 3, QPL No. 5041, FSN 2620-752-8650. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-75. Maintenance platform, adjustable, manual, 2 ft. 3 in. to 4 ft. working level H-range, platform floor, 2 working platforms, magnesium plated, 2 wheels, W/O locks, Max O/A dim. 105 in. LG, 32 3/4 in. W, 54 in. H. MIL-M-58010 (TC). Procurement will be 100% small business set aside, FSN 1730-624-0684. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-76. Plate, clamp assembly, auxiliary firewall support, P/N 1560-CV2-319-1. In accord., with TMC drawing, same number. APPL., CV-2 Aircraft, FSN 1560-856-2869. No clearance required for APPI. USAFECOM.

APPI No. AV-77. Tail pipe, engine exhaust ass'y. in accordance with procurement package No. 204-060-302 dtd 10 Sept., '64. APPL., UH-1 Aircraft, FSN 2990-767-9212. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-78. Indicator, pressure. Dial, 1. Torque pressure scale, 0 PSI to 50 PSI, 1 PSI graduated increments, finish of graduations, fluorescent letters numerals and lined increments pointer data, clock hand type, fluorescent illuminated, incased W/O instrument lamp socket, electrical data, 26V AC, 400 cycles, single phase, connection data, electrical, 1, 3-PIN contacts, and 100660-10SL-3P, O/A dim. 2 5/8 in. L., 2 in. dia., clamp mtg., MIL-I-25578, Type MO-3, Appl., Engine Instrument, Aircraft, FSN 6620-581-2268. No clearance required for APPI. USAFECOM.

APPI No. AV-79. Indicator, liquid qty. Dial, 1 scale, fuel quantity, 0 lbs to 4500 lbs., 100 lb graduated increments, finish of graduations, fluorescent letters, numerals and lined increments, clock-hand pointer, fluorescent illuminated, incased, W/O instrument lamp socket, DC Electrical connections 4-Pin contacts, Bendix Aviation Corp., part No. 1H-14-19P, O/A dim., 5.50 in. L., 2.00 in. clamp mtg., FSN 6680-847-7197. No clearance required to obtain APPI. USAFECOM.

APPI No. AV-80. Valve, directional finder, accordance with procurement package No. 11. 111. Application, aircraft, FSN 1650-739-2635. clearance required to obtain APPI. USAFECOM.

APPI No. AV-81. Valve, regulating, fluid press 3000 PSI Max. inlet pressure rating, 1350 PSI 1700 PSI, reduced outlet pressure range 3.5 G1 max flow capacity at Max. rated inlet and out. pressures, minus 65 deg. F. to plus 275 deg working temp. range, designed for hydraulic fluid, body style 25, sect. A, RDG 250, aluminum alloy body, cres seat and disk seating surfaces, single stage, manually regulated, end connections identical thd female type, 3/8 in. OD tube size, 9/16 18 t UNF., RH, internal thd, spring loaded, appl., draulic installation, aircraft, FSN 1650-056-2304. clearance required to obtain APPI. USAFECOM.

APPI No. AT-49. Counter Shaft W/integral gear HS FSN 2520-752-1037. No clearance required to obtain APPI. USATAC.

APPI No. AT-50. Cylinder assembly, unit air cyl inder, hydraulic brake booster, FSN 2530-040-2188. No clearance required to obtain APPI. USATAC.

APPI No. AT-51. Semi-trailer, low bed, 25 ton 4 wheel, M172A1, FSN 2330-317-6448. No clearance required to obtain APPI. USATAC.

APPI No. AT-52. Mirror assembly, rear view left, FSN 2540-575-8392. No clearance required to obtain APPI. USATAC.

APPI No. AT-53. Hook, Tow quick attaching, FSN 2540-706-8219. No clearance required to obtain APPI. USATAC.

APPI No. WE-29. Fixture, lathe, metal cutting; designed for milling, drilling, boring, key-seating, indexing and other operations on engine lathes. Holding capacity 2" diameter, vertical travel 3 7/8" weight 56 lb. No clearance required to obtain APPI. USAFECOM.

APPI No. WE-30. Lathe, brake drum, floor mounted, 60 in. rated swing, 25 in. maximum drum dia., 9 in minimum drum dia., 10 in maximum depth of cut, stationary cutting tool type, with grinding provisions, 1 HP drive motor, AC, 115 V, 60 cycle single phase, 1/2 HP grinding motor, AC, 115 V, 60 cycle, single phase; in accord., with fed spec 00-L-90, size 11. No clearance required to obtain APPI. USAFECOM.

APPI No. WE-31. Soldering gun; AC, 115 V, 6 cycle, single phase loop shape tip 0.161 inch diameter 0.372 inch wide, 0.263 diameter, 5/16 inch diameter thread fastening, 24 thread per inch, with dual heat control in accordance with Fed., Spec W-1-564A, Type 1, Cord Assembly B, Class 2 wire tested and rated at IT's lowest wattage output. N clearance required to obtain APPI. USAFECOM.

APPI No. WE-36. REVISION No. 1, REDEY Published in accordance with Fed. Spec W-1-564A, Type 1, Cord Assembly B, Class 2 wire tested and rated at IT's lowest wattage output. N clearance required to obtain APPI. USAFECOM.

CANCELLED

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[illegible]

No. 11-87 Transmittal set. P
A. Transmittal Band held i
C. Transmittal set for transmittal
of Transmittal set at Squad
of Set of Transmittal is required
to

Vol. 81-66, Terminal Telegraph
The following communications in
this file were made frequently
between terminal stations and were
transmitted by the Cleveland office.
CPL USAECOM

Re: FBI # 89-1067; ID# 2-40
The following findings for un-
dermined loyalty from are 4
the individual agent for use o
in conducting searches, specia
1-4-41's report and letter
to the Director, dated W. 41
1-1-41 to 2nd Kinsley, ar
dated W. 41 DMS Imped
is required for AFPI USAEC

SA. 88-51 Multi-planner TD-353 (-)
Low impedance facilities for multiple
channels to display pulse code m-
P, analog channel data, 48 chan-
els. We need 6000% impedance, 20
mA range pulse data, 1200 c
mA impedance. No clearance re-
quired. (SAF) (RM)

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated May 3, 1966, page 2, No. PSA 3561-0007, that the potential supplier source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

4. WE-33, Extractor	Reported
A heat treated steel	tool with
hardened made from	upset to
tempering required to	receive it
1944	

4. WEL-34. Hand, Lower, for
assembly, steel casting plus strip
brass required to receive the
rod

to WE-35, Pad, Shoulder, Coat
a large felt padding No security
to receive this APPI USAWE

... 1944-45, Pm. Firing, for M
... treatment and grm
... required to receive th

APPI. No. AT-55. Track, Shoe Section, SNL APP
G293, FSN 2530-730-7343. No security clearance re-
quired to obtain this APPI. USATAC.

APPI No. AT-56. Final Drive Assembly, Left and Right, M113 and M113A1. FSN 2520-895-9164. No security clearance required to obtain this APPI. USATAC.

APPI No. AT-57. Final Drive Assembly, M60 and M60A1 Tank. FSN 25200678-4164. No security clearance required to obtain this APPI. USATAC.

APPI No. AT-58. Cylinder Assembly, Engine, W/Valves and Rollers. FSN 2805-040-0339. No Security clearance required to obtain this APPI. USA-TAC.

APPI No. AT-59. M113, Armored Personnel Carrier, Combat essential and high mortality components and repair parts list. This is an advanced planning procurement listing of items defined by name and Federal Stock Number. Current and future Fiscal Year requirements for each of the listed items are being generated and will be available, upon request, during the month of June 1966. No clearance is required to obtain the APPI. USATAC.

APPI No. AT-60. AVDS-1790 and 2A Engine. (Air cooled, "V" Type, Cylinder configuration, diesel, supercharger), combat essential and high mortality parts list. This is an advanced planning procurement list of items defined by name and Federal Stock Number. Current and future Fiscal Year requirements for each of the listed items are being generated and will be available, upon request, during the month of June 1966. No clearance is required to obtain this APPI. USATAC.

APPI No. AP-15, Rev 1. Ammunition Item—
Metal fabrication projectile TP-T 90MM M353 MPTS
14.2" Max long x 3.537" OD. Body is one piece
design 10.15" x 3.537" OD, threaded nose, rotating
band and crimping grooves, material, steel, HR
carbon bars, excluding Bessemer stock; rotating band

3.55" OD x 1.255" wide x .21" thick material, gilding metal, class B annealed; windshield cone shape varying wall thickness aluminum alloy die casting comp A380 body and windshield assembled with thread sealing compound, cleaned and painted; plug of aluminum alloy anodine finish; disc, piston-bond 20 sealed into plug with adhesive. Subjected to rigid inspection. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool and die engineers. Very difficult to manufacture to government specs in large quantity. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-30, Rev 1 Ammunition Item—Projectile, high explosive, 4.2" M329A1, MPTS, 16.395" max length x 4.193" max outside diameter, 3-piece design. Consists of body 3.73" inside diameter tapers to 3.062" nose opening material, non-resulphurized steel tube. Adapter nose (non-resulphurized steel) threaded Base, L.F. thread on one end (non-resulphurized steel). Each component must have minimum yield strength of 45,000 lbs. PSI at .1 percent offset. Interior and exterior cleaned and phosphatized. Lustreless enamel or lacquer on exterior must withstand 144-hr salt spray. Item considered difficult to manufacture. No clearance required to obtain APPI. AP-ASAMUCOM.

APPI No. AP-32, Rev 1. Ammunition item—Projectile, high explosive, 105MM, M442, MPTS. Approx 20.422" long x 4.223" diameter. Four components. Body, approx 14.03" long x 4.128" outside diameter at one end tapering to 2.38" at nose. Inside diameter varies from 3.105" at larger end and up to 3.505" agent to 24" radius tapering down to 2" thread at nose. Material, iron, pearlitic malleable casting, spec MIL-C-46971, minimum yield strength of 70,000 pounds PSI with 2 percent minimum elongation. Base, approx 5.67" long x 4.128" outside diameter tapering to 3.547" boattail (steel). Rotating band blank (sintered iron). R

ing x 2.412" outside diameter, 2" external thread
end and 1.25" hexagon head on other (aluminum
die casting). Base silver brazed to body. As-
sembly must withstand hydrostatic pressure test of
1501 pounds PSI and air pressure test 150 pounds
PSI. Base forgings and body casting require heat
treatment. Inspections base and body, magnetic par-
ticle, body casting, ultrasonic. Ballistic tests for
penetration or breakup of projectile metal parts.
Engineers and tool designers. Item considered ex-
tremely difficult to produce. No clearance required
to obtain APPI. AP-USAMUCOM.

APPI No. AP-35, Rev 1. Ammunition item—Projectile, TP-T, 103MM, M489 assy, 25.88" long x 4.13" diameter. Consists of eight (8) components. Body, .09" long x 4.128" diameter x 3.052" inside diameter, inside threads both ends. Material carbon steel, unfinished or special bar quality or seamless steel tubing. Base 9.33" long x 4.111" diameter tapered 1.44", thread both ends outside. Material, aluminum alloy forging. Spike, 7.610" long x 4.111" diameter head section, stem section 1.322" diameter tapered to 1.2" diameter 6" long, thread both ends. Material, aluminum alloy forging. Fin, 3.69" long x

4.083" diameter, six (6) webs with "T" shape lugs, inside threads both ends. Material, aluminum alloy extrusion. Obturator, 4.29" diameter x 3.591" inside diameter x .706" long. Material, Zytel 101 or 42 clear tubing, available commercially. Cup nose, flange, 1.57" diameter x .125" thick, aluminum. Plug 7/8" diameter x .34" long x 5/16" bore, aluminum. Disc, .435" diameter x .004" thick, brass strip alloy. Manufacturer will require engineers, metallurgists, chemists. Item considered difficult to produce. No clearance required to obtain APPI. AP-USA-MUCOM.

APPI No. AP-36, Rev I. Ammunition Item—Projectile, HEAT, 106MM, M344A1 with M8 fin, metal parts. Projectile assy, 16.43" long x 4.128" diameter. Consists of 10 components body, 7.68" long x 4.128" outside diameter, 3.555" inside diameter, counter-bored and internally threaded both ends, 2 bourrelets and annular groove on outside diameter. Material, seamless steel tubing or special bar quality steel forging. Ogive, 8.116" long, hollow truncated cone with 4.11" outside diameter tapering to 1.3713" on opposite end, .144" wall thickness, external threads both ends. Special bar quality steel forging or cold extrusion steel. Cone, 3.8102" long, hollow truncated

APPI No. AP-36, Rev I. Ammunition Item—Projectile, HEAT, 106MM, M344A1 with M8 fin, metal parts. Projectile assy, 16.43" long x 4.128" diameter. Consists of 10 components body, 7.68" long x 4.128" outside diameter, 3.555" inside diameter, counter-bored and internally threaded both ends, 2 bourrelets and annular groove on outside diameter. Material, seamless steel tubing or special bar quality steel forging. Ogive, 8.116" long, hollow truncated cone with 4.11" outside diameter tapering to 1.3713" on opposite end, .144" wall thickness, external threads both ends. Special bar quality steel forging or cold extrusion steel. Cone, 3.810" long, hollow truncated

one closed on small end, 3.564" outside diameter tapering to about .616" on opposite end, .10 wall thickness, cold rolled, deep drawing annealed strip copper. Chamber, 3.10" long x 3.938" outside diameter, external thread one end, internal thread on other followed by radius, reverse angle taper, 1 7/8 thread, counter bore and 1.264" thru hole with 4 equally spaced longitudinal slots on circumference. Aluminum alloy. Plug, .39" long x 1.873" outside diameter, 1 7/8 thread, 2 blind holes 180 degrees apart on base, one blind hole on longitudinal axis opposite end. Aluminum alloy. Fin assy, 11.22" long x 3.938" diameter. Consists of 16 components. Major components fin, 6 each, 8.93" long, varying in depth from 1.544" at base to .929" at outer extremity, .040" thick at top to .260" at bottom, .25" hole thru base with full depth involute spur gear tooth space on outside radius at base bottom. Aluminum, forging. Housing, 2.91" long x 3.938" outside diameter. 1.687" inside diameter, 6 pair lugs one end, .25" hole thru each, other end counterbored. Aluminum alloy or forging. Piston, stop, .51" long x 1.824" outside diameter undercut and tapered. Carbon steel bar. Item must withstand tests for metal part security, fin opening and penetration. Manufacturer requires engineers, metallurgists, tool designers. Item considered extremely difficult to produce. No clearance required to obtain APPI. AP-
USAMUCOM.

one closed on small end, 3.564" outside diameter tapering to about .616" on opposite end, .10 wall thickness, cold rolled, deep drawing annealed strip copper. Chamber, 3.10" long x 3.938" outside diameter, external thread one end, internal thread on other followed by radius, reverse angle taper, 1 7/8 thread, counter bore and 1.264" thru hole with 4 equally spaced longitudinal slots on circumference. Aluminum alloy. Plug, .39" long x 1.873" outside diameter, 1 7/8 thread, 2 blind holes 180 degrees apart on base, one blind hole on longitudinal axis opposite end. Aluminum alloy. Fin assy, 11.22" long x 3.938" diameter. Consists of 16 components. Major components fin, 6 each, 8.93" long, varying in depth from 1.544" at base to .929" at outer extremity, .040" thick at top to .260" at bottom, .25" hole thru base with full depth involute spur gear tooth space on outside radius at base bottom. Aluminum, forging. Housing, 2.91" long x 3.938" outside diameter. 1.687" inside diameter, 6 pair lugs one end, .25" hole thru each, other end counterbored. Aluminum alloy or forging. Piston, stop, .51" long x 1.824" outside diameter undercut and tapered. Carbon steel bar. Item must withstand tests for metal part security, fin opening and penetration. Manufacturer requires engineers, metallurgists, tool designers. Item considered extremely difficult to produce. No clearance required to obtain APPI. AP-
USAMUCOM.

APPI No. AP-44, Rev 1. Ammunition Item—Projectile, 105MM, HEP-T, M393A2 MPFS, 15.84" long by 4.125" outside diameter, 3 components consisting of body assy, 15.34" inches long by 4.123" outside diameter, one piece design, varying wall thickness from approximately .30" to .135", parabolic shaped nose, 2 rotating band grooves, counterbore and threaded base end, material, steel, carbon, ASTM A107-58T, mechanical properties, yield strength 70,000 PSI, elongation 10 percent. Rotating band blank, two (2) 4.14" inside diameter by .240" wall thickness by .775" long, material, gilding metal, spec MIL-B-20292. Body and two rotating band assy must withstand an internal air pressure test of 160 PSI minimum for 15 seconds. Plug bags, 3.00" long by 4.06" outside diameter of shoulder, two holes 1.80 degrees apart 5/16" diameter by 5/16" deep, threaded cavity in base end, 5/8" diameter by .35" deep, opposite end threaded cavity 1.80" diameter by 1.94" thread, material, aluminum alloy, 2024-T4 or 2024-T3510, specification QQ-A-267, aluminum alloy, 6066-T6 or 6066-T331, specification MIL-A-5493. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required to mass produce. This projectile is considered very difficult to produce to applicable specifications. No clearance required to obtain APPI, AP-USAMUCOM.

APPI No. AP-44, Rev 1. Ammunition Item—Projectile, 105MM, HEP-T, M393A2 MPFS, 15.84" long by 4.125" outside diameter, 3 components consisting of body assy, 15.34" inches long by 4.123" outside diameter, one piece design, varying wall thickness from approximately .30" to .135", parabolic shaped nose, 2 rotating band grooves, counterbore and threaded base end, material, steel, carbon, ASTM A107-58T, mechanical properties, yield strength 70,000 PSI, elongation 10 percent. Rotating band blank, two (2) 4.14" inside diameter by .240" wall thickness by .775" long, material, gilding metal, spec MIL-B-20292. Body and two rotating band assy must withstand an internal air pressure test of 160 PSI minimum for 15 seconds. Plug bags, 3.00" long by 4.06" outside diameter of shoulder, two holes 1.80 degrees apart 5/16" diameter by 5/16" deep, threaded cavity in base end, 5/8" diameter by .35" deep, opposite end threaded cavity 1.80" diameter by 1.94" thread, material, aluminum alloy, 2024-T4 or 2024-T3510, specification QQ-A-267, aluminum alloy, 6066-T6 or 6066-T331, specification MIL-A-5493. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required to mass produce. This projectile is considered very difficult to produce to applicable specifications. No clearance required to obtain APPI, AP-USAMUCOM.

APPI No. AP-72, Ammunition item—Projectile, chemical, M121E1 MPTS—consists of six (6) components, body, approx 23.75" long by 6" diameter, nose section threaded and precision finished within .005 to .010 inches, material, steel, ASTM-A273 1/2" length by 1.909" inside diameter, external and internal threads, material steel, ASTM-A107 special grade, quality or steel tubing, spec QQ-T-830, rotating end, 6.36" diameter by 9.09" inside diameter by .076" wide, material, gilding metal, spec MIL-B-4292 or MIL-B-20295, gasket, 2.19" diameter by .040" inside diameter by .125" thick, material, rubber, neoprene, type S, class SC, grade SC515, Spec MIL-R-3065, VCI paper, approx 20" square, material, volatile corrosion inhibitor paper, type 1, class C, Spec MIL-P-3420, gasket shipping, 2.83" diameter by 2.5" inside diameter by .13" thick, material rubber, Spec MIL-R-3065, type S, class SC, grade SC820 A, B, as specified in MIL-STD-417, magnetic particle inspection in the nose section of each projectile is required. Each projectile must withstand a helium gas test. Exterior is surrounded by one atmosphere of helium, a maximum of twenty (20) microns of mercury absolute pressure.

Maximum lead permitted is 1 x 10 minus 6 centimeters per second. Projectiles are packaged on wood pallets for shipment. This item is considered very difficult to produce to spec requirements. No clearance required to obtain APPI, AP-USAMUCOM.

♦ Notes (All Frankford Arsenal Items (thus ♦) indicated require large production quantities, APPI Nos. FA-28 thru 35)

APPI No. FA-28. ♦ Case cartridge 20MM M103. Material, copper alloy. Dimensions: 4.012 inches long x 1.165 outside diameter at base tapered to .822 at mouth, with a counterbored primer hole in base. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-29. ♦ Fuze M505A3 is used with the 20mm HE1 ammunition. It consists of a body assembly, a rotor assembly and a booster holder assembly. The body assembly consists of an aluminum alloy firing pin and a rotor safety spring of corrosion-resisting steel wire contained in a steel body and covered by a sheet steel cover. The rotor assembly consists of a brass rotor containing the detonator. The booster holder assembly consists of a steel holder housing the booster. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-30. ♦ Projectile M56A3 for 20mm electric HE1 cartridge. It consists of body, rotating band and base cover. The body which is made of steel is hollow. The base cover is also fabricated from steel and is welded to the body. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-31. ♦ Propellant for use with 20mm HE1 M56A3. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-32. ♦ Metal boxes, M548, are reusable steel boxes having hinged covers sealed by means of a rubber gasket. These containers are used for packing small arms ammunition and are designed to withstand all conditions commonly encountered in handling, storing and transportation of ammunition. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-33. ♦ Metallic Belt Links M12, are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel, processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-34. ♦ Metallic Belt Links M14A1, are used with 20mm and 7.62mm cartridge in machine guns. The links are made of steel processed for rust prevention and are required to meet specific test requirements to assure satisfactory ammunition feed and functioning under all service conditions. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. FA-35. ♦ Links M1 Steel Stamped to size, heat treated, one piece treating to prevent rust and subject to tests to assure satisfactory machine gun feeding. Large production quantities. No clearance required to obtain APPI. FA-USAMUCOM.

APPI No. ME-84. Air Conditioner. Wall Mounting, monochlorodifluoromethane, closed type compressor, air-cooled condenser, electric motor powered, 1 EM for compressor, 4 HP, AC 208 V, 400 Cycle, 3 Phase, 1 BM for condenser fan 3/4 HP, AC, 208 V, 400 Cycle, Phase, 1 EM for Evaporator Fan 3/4 HP, AC 208 V, 400 Cycle, 3 Phase, cooling, 18,000 BTU per hr, 600 CFM heating capacity, 12,000 BTU per hr, 600 CFM, Type 11, in accordance with MIL-A-52344A, FSN 4120-060-4507. No security clearance required to obtain this APPI. USAMEC.

APPI No. ME-85. Crane Truck, Warehouse, 10,000 lb capacity, gasoline engine powered, pneumatic tires, revolving telescopic boom, in accordance with MIL-C-3998A, FSN 3950-050-1098. No security clearance required to receive this APPI. USAMEC.

APPI No. ME-86. Generator Set. Diesel Engine, 60 KW, AC, 0.8 PF lagging, 400 Cycle, 3 Phase, 4 Wire, 240 V line to neutral and 416 V line to line (240/416 V) WYE, 3 Phase, 4 Wire, 120 V line to neutral and 208 V line (120/208 V) WYE; liquid cooled portable, skid mounted, winterized, precise power in accordance with MIL-G-52146 with amend 1; FSN 6115-752-2092. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-87. Roller, Towed, Sheepfoot. 2 drums in line, oscillating type frame, drum 40 in. to 44 in. dia, 48 in. wide; tamping foot data, 7 in. min length overall, 5 sq in face area, 88 to 112 per drum, 8 ft to 10 ft compaction width in accordance with MIL-R-1284B with amend 1; FSN 3895-263-0121. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-88. Roller, Towed Pneumatic Tired. Hopper frame, 100 cu ft min ballast capacity; 13 tires; 9 ton; 84 in., rolling width; in accordance with MIL-R-11806B with Amend 1; FSN 3895-227-1599. No security clearance is required to obtain this APPI. USAMEC.

APPI No. ME-89. Scraper, Earthmoving, Towed. 7.5 cu. yd. struck capacity scoop; hydraulic; 4 wheel.

pneumatic tires; open bowl; air transportable, Phase 1, air droppable; convertible to 2 wheel unit in accordance with MIL-S-52034B; FSN 3805-530-2098. No security clearance is required to obtain this APPI. USAMEC.

APPI No. ME-90. Truck, Lift, Fork. Diesel engine driven; pneumatic tires; rough terrain 600 pounds at 24 in load center; 144 in lift, 24 volt electrical system, power operated transmission in accordance with MIL-T-21863B with Amend 1, FSN 3930-073-8751. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-32R1 (Revision). Generator Set. Diesel Engine, AC, 15 KW, 60 Cycle, 0.8 power factor, multi-purpose; self-excited; prime motor cranked, a liquid-cooled radiator type, electric motor cranked, 24 volt cranking voltage, skid mounted; fully in closed, overall dimensions 65 in long 30-7/8 in closed, 48 in high, with radio interference suppression; with following special features, A 100 AMP battery charging system, a power receptacle connection plate and precise power, in accordance with MIL-G-53480; FSN 6115-889-1370. No security clearance is required to receive this APPI. USAMEC.

APPI No. ME-42R1 (Revision). Fabric Collapsible, vinyl coated, rubber coating inside and outside, reinforced with polyester products or water, 3000 psi, 1/2 in. thick, 54 in deep; with standard 1/2 in. x 1/2 in. and ground cloth in accordance with MIL-T-14398D; FSN 5430-335-4486D. No security clearance is required to obtain this APPI. USAMEC.

APPI No. MI-49R1. Battery/Gas Bottle Assy—Redeye Missile System—This assembly supplies electrical power and freon gas coolant to the Redeye Guided Missile Weapon prior to launch. Activation of the thermal battery is accomplished by an impulse generator located in the Redeye launcher which also detonates the explosive activated freon release mechanism which shears an external gas release tube in the Battery/Gas Bottle Assy. The overall dimensions of the assembly are 5 inches in length and approximately 2 inches in diameter. The gas bottle is spherical in shape and is fabricated from stainless steel. The bottle is approximately 1.5 inches in diameter and is capable of a proof pressure of 7100 psi at -70°F. The battery/gas unit case, electrical connector and threaded cap are fabricated as a one-piece molded plastic part. The assembly is a one time operation device. No Federal Stock Number assigned. The battery is Government furnished equipment. No clearance required to obtain APPI. This synopsis supersedes synopsis MI-49 published on 5 April 1966. USAMICOM.

APPI No. MI-50. Container—Chapparral Missile—This container consists of an inner aluminum tube approx 116" long by 8" O. D. shockmounted to parallel aluminum angle members, surrounded by a rigid closed cell polyurethane body contained in a thin perforated aluminum skin. The inner aluminum tube has an access cover on one end and the outer aluminum skin has hinged and latched end covers. 6 slots are provided, 3 on each end, in the polyurethane cell for storage of the missile wings and canards (fins). The container has approx. outside dimensions of 125" long by 19" high by 18" wide and is designed for stackability. Weight is to be 95 lbs or less. No Federal Stock Number assigned. Procurement may be a small business set-aside. Confidential clearance is required to receive this APPI. USAMICOM.

APPI No. MI-51. 1. Case Assembly, Rocket Motor (Sergeant Missile System). 2. Control Surface Assemblies (Sergeant Missile System). 3. Released for Sub-contracting. This item is a sole source production item. Requests for information should be directed to Sperry Utah Co., Salt Lake City, Utah. No Federal Stock Number Assigned. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-52. 1. Body Sections, Guided Missile (Sergeant Missile System). 2. Control Surface Assemblies (Sergeant Missile System). 3. Released for Sub-contracting. This item is a sole source production item. Requests for information should be directed to Sperry Utah Co., Salt Lake City, Utah. No Federal Stock Number Assigned. No clearance required to obtain this APPI. USAMICOM.

APPI No. MI-53. Test Set Semi-Automatic Performance Evaluator (Rate Table) for Guidance Control Group of Chapparral Missile. Test set consists of a complex assembly of electronic and mechanical electronic equipment used to simulate the provisions of (c) (1) of the Code of Federal Regulations, Title 48, Part 101, Subpart 101.1, Item 101.1-1. This item is Specification 101.1-1, Item 101.1-1, and requires an intimate knowledge of the Chapparral Missile. This release is of primary interest to firms desiring to act as sub-contractors. No Federal Stock Number Assigned. No clearance required to obtain this APPI. USAMICOM.

APPI No. AV-82. Servocylinder, Hydraulic. 1 cylinder, hydraulic operation; double end action; 3,500 in. lg. stroke; 937 in. size bore, hydraulically operated by-pass valve; o/a dim., 14,340 in. lg., 2,874 in. w., 2,600 in. thk; 2 mtg holes, 1/4 in. dia., 2 parallel holes located at fork end., 350 in. from center of hole to end of fork; Appl., Control Inst.,

Hydraulic, Tail Rotor, FSN 1650-014-2038. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-83. Control, Remote, Fire Extinguisher. For use on Army Aircraft. Ord Drawing 7968270, FSN 1680-182-3897. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-84. Maintenance Platform. Adjustable, hydraulic adjustment; 3 ft. to 10 ft. working level H range; platform floor, 1 working platform, steel plate material, w/4 wheels, w/o locks; equipped w/ladder; w/safety guards around platform, fixed type; max. o/a dim., 131 in. lg., 44 1/2 in. w., 123 in. h., MIL-M-5777B, Type B-1, FSN 1730-390-5618. Procurement will be 100% small business set aside. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-85. Jack, Hydraulic, Tripod, 5-Ton capacity, 23 9/16 in. low h., 16 in. hydraulic lift, w/screen extension, 12 in. h., w/leg extension, 2 sets, 75 9/16 in. max. extended h., w/removable pump. MIL-J-7399, Type B5; FSC Appl., Acft. Gnd. Servicing Eqp. FSN 1730-516-2018. Procurement will be 100% small business set aside. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-86. Test Stand, Hydraulic Systems Components. Portable, to test aircraft hydraulic systems; 3,000 to 5,000 psi operating pressure, 5 to 10 gpm flow capacity, gasoline engine driven 23 to 31 HP, w/filtering system, w/pressure and suction hose, suction side of pump will withstand 100 psi gage pressure, MIL-T-7612, Type D5B, FSN 4920-141-8801. This procurement will be 100% small business set aside. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-87. Scale, Aircraft Weighing, 150,000 lb. max cap., portable, incl. carrying case, 110V 60 Cy. single phase; DC, 22V to 28V; indicator, dial, 5100 lb., dial graduations in 10 lb. increments; accessories per specifications, MIL-W-7327A, 7327A Type C-1, and MSS 6670-1. FSN 6670-526-8498. No clearance Required to obtain APPI. USAAVCOM.

APPI No. AV-88. Tester, Pyrometer and Thermocouple. Field, Type N-3A. Potentiometer and MV circuit principle. Scale reading data 22.50V to 2850V range form 0.5V accuracy rating, calibrated to 12 and 24V. Resistance thermometers calibrated to iron constantan and chromel alumel thermocouples. Scale data 3 1/2 min lg. o/a dim. 18 in. lg x 10 1/2 in. w. x 6 in. h., portable. Gove Spec Data, MIL-T-58082, Type N-3A. FSN 6695-762-0057. No clearance required to obtain APPI. USAAVCOM.

APPI No. EL-59. Terminal Telegraph AN/TCC-4 () Terminal Telegraph AN/TCC-4 () comprises the equipment required at one end of a circuit to provide up to 8 two-way telegraph channels on any 2 wire or 4 wire voice frequency or carrier telephone circuit. No security clearance required. USECOM.

APPI No. EL-60. Central Office Telephone Manual AN/TTC-7A. A complete telephone switching center to inter-connect common battery and trunk lines may be expanded on a 4-panel multiple basis to inter-connect 1000 lines and 160 trunks. No security clearance required. USAECOM.

APPI No. EL-61. Telephone Central Office Group, Manual AN/GTA-14(V). A grouping of components when installed in shelters or vans provide facilities for a manual Telephone Central Office operation. No security clearance required. USAECOM.

APPI No. EL-62. Radio Set AN/VRC-24A. A vehicular DC powered UHF Ground-to-air radio set. Provides for operation with Ciphony Equipment TSEC/KY-8 and Radio Set AN/GRC-5(). No security clearance required. USAECOM.

APPI No. EL-63. Telephone Set TA-312/PT. A light weight portable field telephone designed for general purpose use. Has one-way interchangeability with TA-43/PT. No security clearance required. USAECOM.

APPI No. EL-64. Receiver-Transmitter Radio Set RT-246/VRC. A rugged, compact FM receiver-transmitter in a watertight case. It may be manually tuned from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments or automatically tuned from the front panel, or remotely, to any of ten pre-set frequencies within the 30 MC to 75.95 MC tuning range. No security clearance required. USAECOM.

APPI No. EL-65. Receiver-Radio R-442/VRC. A rugged, lightweight, compact, FM receiver fitted in watertight case. The receiver is manually tunable over the frequency range of 30 MC to 75.97 MC in 50 KC increments covered in two bands. N security clearance required. USAECOM.

APPI No. EL-66. Receiver-Transmitter Radio R7 524/VRC. A rugged, compact FM receiver-transmitter in a watertight case. It is tuned manually from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments. A integral loudspeaker is mounted on the front panel. No security clearance required. USAECOM.

APPI No. EL-3, Radio Set AN/GRC-106, cancelled.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 7, 1966 page 2, No. PSA 3798 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-4, Rev. 2. Booster, M125A1, assembly, MF15, with loaded M17 detonator, approximately .7 inch diameter by 2 inch long. Booster subassembly, two subassemblies and 9 components, balance and assembly, balance, .26 inch OD by .12 inch high, with (2) flat .22 inch across diameter with .07 inch center hole material, brass, composition 1 or 2, F411 hard, spec Q-Q-B-626, shaft, balance, .075 inch diameter by .316 inch long, material F51117 vs F51141, specification Q-Q-S-633, or steel, corresponding class 416, specification Q-Q-S-763, pin, .12 inch OD by .03 inch OD by .113 inch long, material steel, corresponding, FS410, condition H, specification Q-W-423, or steel, corresponding, FS410, condition H, Specification Q-Q-S-763, body assembly, (3) composition, body, 2 inch OD by 1.40 inch long multiple machine operations, material, brass, forging free machining specification MIL-R-1181, shaft, rotor, .13 inch OD by .68 inch long, .04 inch long head on OD, pin, detent spring, .12 inch OD by .04 inch OD by .345 inch long, pin, rotor support, .1245 inch by .345 inch long, pin, actuator, .12 inch OD by .075 inch OD by .25 inch long, material for rotor shaft and above pins, steel, corresponding, class 416 specification Q-Q-S-763, or steel, FS1141, to FS1141, specification Q-Q-S-633, cover, .012 inch thick, approximately 1.75 inch OD by .04 inch high by .04 inch wall thickness, material plate, phosphor, cast, grade 1, type 11 P12, form, plate, 12 inch eccentric shape, approximately .340 inch long by .332 inch wide by .008 inch thick material, brass composition 2 or 3 half hard min. OD D-111 or silvered brass, 7.45 per cent copper, 20 per cent zinc, 1.5 per cent lead, pin tensile (2) 60S P45, shank 8 to 12 PCT escape wheel assembly, (2) composition wheel, escape star shape, 12 teeth, (2) spaced, .45 inch point to point distance by .02 inch thick material, steel FS1141 to FS1141, CR annealed temper No. 3, specification Q-Q-B-644, or steel spring, composition 1, specification MIL-S-11713, MIL-S-11713, pinion, engagement, .174 inch OD by .316 inch long by 9 teeth 147 inch long material, steel FS1137 min. Spec Q-Q-S-633, or steel, correspond, class 416, specification Q-Q-S-763, No. 1, gear and pinion assembly 2 composition, pin No. 1, .1435 inch OD by .034 inch thick 22 teeth with .1157 inch diameter by 4 spline center hole material, brass, composition 24 hard min. spec Q-Q-B-613, pinion No. 2, .1435 inch OD by .316 inch long with 9 teeth material, steel, FS1137 min. spec Q-Q-S-633 or steel, correspond, class 416, spec Q-Q-S-763, No. 2, gear and pinion assembly, gear, No. 2, .4496 inch OD by .0915 inch thick, 27 teeth, .171 inch ID, 8 spline center hole, material, same as gear No. 1, pinion, No. 2, .2162 inch OD by .344 inch long by 8 teeth material, same as pinion No. 1, plate, movement, 1.614 inch OD by .0327 inch thick, with numerous and various dia holes, round, oval or kidney shape, approximately .9 inch long by .9 inch wide at maximum points, with (4) various diameter holes, materials, brass, sintered, spec B-12128 or brass, composition 1 or 22 half hard, specification Q-Q-B-626, gear, rotor, gear segment, .1012 inch OD by .070 inch thick by 42 teeth in 60 degrees 8 tooth actual number generated in a 120 degree section, material, brass, composition 24, hard min specification Q-Q-B-613, cushion, detonator, .24 inch OD by .15 inch ID by .037 inch thick material, cork, compressed commercial, pin, rotor gear, .04 inch diameter by .42 inch overall long by .13 inch diameter by .036 inch wide head, material, brass, composition 1 or 22 hard, specification Q-Q-B-626, pin, rotor lock, .104 inch OD by .19 inch long material, steel, correspond, class 416, specification Q-Q-S-763, spring, rotor lock pin, .125 inch long by .078 inch ID by .006 inch wire diameter active ends, material, steel, wire, corresponding, specification Q-W-423, rotor with M17 lead azide detonator, long by .146 inch diameter, (No. 1) 72NF 1 or 22, half hard or wire, brass, half -321, seal, dust 1/2 k, pressure sensitive, pg agency approved tent, .135 inch OD by .08 and .35 inch leg by ore diameter, material,

APPI No. AP-32, Rev 1. Issued 3 May 66 for projectile, HE, 105MM, M442. MPTS is hereby cancelled since requirements for this particular item have been withdrawn.

APPI No. AP-76. Fuze, grenade, XM 218 consists of /22/ components and /4/ assemblies. Detonator housing assembly, /7/ components, lockweight, approximately .194 inch long by .094 inch wide by .095 inch high with various notches and radii, material, lead alloy, grade 10, specification QQ-T-390, coated with molybdenum disulphide, four required, lockweight spring, approximately .35 inch free height, 5 coils, .174 inch diameter, .005 inch wire diameter, material, steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of MIL-STD-171, M55 stab detonator, government-furnished, rotor housing, approximately .956 inch maximum diameter by .317 inch high with various sized holes and notches, material aluminum die casting, alloy SG-100B.

specification ASTM-B85 /cold chamber process/, rotor, approximately .526 inch diameter by .161 inch thick various holes and notches, material, aluminum alloy S-G100B, specification ASTM-B85 /cold chamber process/, or aluminum 3003 temper "O", ASTM-B209, rotor spring, approximately .96 inches free height, 29 coils, .089 inch diameter .005 inch wire diameter, material steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of Mil-std-171, rotor shaft, .216 inch long by .104 inch diameter, material, brass, rod, composition 22, half-hard, specification QQ-B-626.cover, .962 inch diameter by .561 inch deep cup, .016 inch wall thickness, material steel, low carbon, sheet and strip, drawing quality QQ-S-698, protective finish number 1.9.2.2 or number 1.1.2.2 of Mil-STD-171, overally .865 inch diameter by .272 inch deep cup with .04 inch lip, .032 inch wall thickness, material, aluminum alloy, 2024, temper "O", specification ASTM B 209, protective finish number 4.3 of mil-std-171, Disc, safety, .711 inch diameter by .019 inch thick, material, steel, carbon, strip, cold rolled untempered spring, spheroidize annealed, number 1095A, QAC-PD-109, protective finish number 1.9.2.3 of mil-std-171, lead cup assembly, lead cup with rdx, government-furnished, delay housing assembly /13/ components, delay housing, approximately .956 inch maximum diameter by .366 inch high with various size holes and notches, material, aluminum die casting alloys 100B, specification ASTM-B85, delayrotor, .70 inch diameter by .213 inch thick, material, aluminum die casting alloy, SG-100B, specification ASTM-B85, protective finish, electroflm, number 4396, .0002 to .0005 inch thick pr mil-I-8937, delay spring, .72 inch diameter, 5 coils, .018 inch wire diameter, 11.24 inch active length, material, steel music spring wire, specification ASTM A228, protective finish number 1.8.2 of MIL-STD-171, Rotor pin, .168 inch diameter head .025 inch thick, .040 inch diameter shank .167 inch long, material, half-hard brass rod, specification ASTM B16, rotor latch, flat metal .044 inch width, .0045 inch thick, one end 90 degree twist, one end 90 degree hook, material, corrosion resistant steel strip, 301, 302 or 304, full hard, finish number 2, specification QQ-S-766, lever, "T" shaped, .224 inch long, .181 inch wide, .031 inch thick, material, corrosion resistant steel strip, class 302, specification ASTM A167, firing, pin, .150 inch diameter face .021 inch thick, .072 diameter shank 1.65 long with .066 inch wide by .024 inch deep tangential slot firing point on face 26 degree angle .031 inch long material, corrosion resistant steel bar, cold finished, class 416, condition A or T, specification QQ-S-763, protective finish number 5.4 of MIL-STD-171, firing pin spring, .717 inch long, .210 inch wide, .010 inch thick, one end bent 30 degrees, one hole in each end, material, high carbon steel, 1095, conditions a or h, specification MIL-S-7947, heat-treat to Rockwell C44-C52 / or 63-71 on 30-N scale/, not required for condition J1 material/, protective finish number 3.3.1 of MIL-STD-171, firing pin guide, some configurations as firing pin spring, end bent 25 degrees, material, high carbon steel, 1095, hard temper, specification MIL-S-46049, protective finish number 3.3.1 of MIL-STD-171, cover and SAC assembly, /2/ components, housing cover, .770 diameter, .020 inch thick plate, material, corrosion resistant steel strip, class 301, full hard, specification QQ-S-766, protective finish number 5.4 of MIL-STD-171, SAC, covers .625 diameter area of housing cover, material, Thermoplastic Strip Adhesive, GT-300, 50 gage with .50 mil resin. This item is considered difficult to produce to ordnance standards and specifications. Confidential clearance required to receive APPI.

APPI No. AP-73. Fuze, grenade, M219 consists of 21 components and 6 assemblies. Housing assembly 4 components, lockweight, approximately .194 inches long by .094 inches wide by .095 inches high with various notches and radii, material, lead alloy, grade 10, specification QQ-T-390, coated with molybdenum disulphide, 4 required, lockweight spring, approximately .35 inch free height, 5 coils, .174 inch diameter, .005" wire diameter, material, steel music spring wire, specification ASTM-A228, protective finish number 18.2 of MIL-STD-171, M55 Stab detonator, government furnished, rotor and housing assembly, 4 components, rotor housing, approximately .956 inch maximum diameter by .317 inch high with various sized holes and notches, material, aluminum die casting, alloy SG-100B, specification ASTM-B85, cold chamber process, rotor, approx., .526 inch diameter by .161 inch thick with various holes and notches, material, aluminum alloy SG-100B, specification ASTM-B85 cold chamber process or aluminum 3003 temper O ASTM-B209, rotor spring, approximately .96 inches free height, 29 coils, .089 inch diameter, .005 inch wire diameter, material, steel music spring wire, specification ASTM-A228, protective finish number 18.2 of MIL-STD-171, rotor shaft, .216 inches long by .104 inch diameter, material, brass, rod, composition 22, half-hard specification QQ-B-626, cover .962 inch diameter by .561 inch deep cup, .016 inch wall thickness, material, steel, low carbon, sheet and

strip, drawing quality QQ-S-698, protective finish number 1.9.2.2, or number 1.1.2.2 of MIL-STD-171, overlay, .865 inch diameter by .272" deep cup with .04" lip, .032" wall thickness, material, aluminum alloy, 2024, temper O, specification ASTM B209, protective finish number 4.3 of MIL-STD-171, disc safety, .711" diameter by .019" thick with .176" diameter hole, material, steel, carbon, strip, cold rolled untempered spring, spheroidize annealed, No. 1095A, OAC-PD-109, protective finish No. 1.9.2.3 of MIL-STD-171, lead cup assembly, lead cup with RDX, government-furnished, firing pin assembly, 2 components, firing pin, .569" long by .131" wide by .037" thick, material, steel, corrosion resisting, chromium, strip, type 430, cold finished, specification ASTM A176, firing pin spring, .948" diameter by .004" thick with various cutouts and notches, material, steel, corrosion resistant, type 17-7, hard temper AMS 5529, minimum tensile strength 230, 000PSI, weights and plate assy., 6 components, centerplate, Y shaped, .956 inch diameter by .150" thick with various radii and cutouts, material, aluminum alloy, 6061, temper O, specification ASTM-B209, heat-treat to T6 condition, push pin, approximately, .122" diameter by .138" long, material, aluminum alloy, 7075-T6, specification ASTM-M-B211, protective finish, molybdenum disulfide, hammerweight spring, Y shape before forming, approx., .710" diameter by .0047" thick, formed to free height of .112", material, steel, strip, cold rolled, hardened and tempered, spring specification MIL-L-3503 or finish No. 3.3.1 of MIL-STD-171, hammer-weight, three required wedge shaped 120 degree with apex cut off, .385" radius, .174" thick, material, steel, low carbon sheet or strip, specification QQ-S-698, hammer-weight bracket, 3 required, U shaped, .284" wide by .206" high by .031" thick, material, steel, low carbon, sheet and strip, temper 3, specification QQ-S-698. This item is considered difficult to produce to ordnance standards and specifications. No security clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-22, Rev 1. Complete head assembly for M525 (T336E7 and M527B1), fuzes. Mechanical escapement type, with arming, non-arming, arming delay, and clock movement principles. Approximately, 1 1/2 inch long x 1.38 inch OD, approximately (43) components, (11) assemblies, (29) specs, components balance .305 inches OD x .212 inches wide, material brass rod, bushing, .45 inches OD x .15 inches thick, material brass rod, firing pin 1.4 inches long x .157 inches OD, material, aluminum alloy rod, bushing retainer, .38 inches long x .24 inches OD with .36 inch flange, material, brass rod, spring washer, approved source, housing, .998 inch OD x .625 inches long, material, brass rod plunger, .25 inches OD x .26 inches long, material, aluminum alloy rod, striker, cup shape, .895 inches OD x .475 inches high with .055 inch wall material, aluminum alloy rod, head, .38 inches maximum OD x 1.097 inches maximum length, material, aluminum alloy tubing or rod, spacer 1.64 inches OD x .0937 inches thick, material, aluminum alloy sheet, .21 inches OD x .25 inches long, material, brass rod, pinions (3) material stainless steel, pins & posts, (6) material, stainless steel, plate, .61 inches OD x .031 inches thick, material, stainless steel, plate, .91 inches OD x .048 inches thick material brass sheet, gears, (3) 19, 22, 40 tooth & escape wheel, 9 tooth, material, brass for gears and wheel shaft, .545 inches long x .078 inches OD material, stainless steel, bushing .39 inches long x .37 inches OD, material, brass rod, retainer, for mainspring, cup shape, .91 inches OD flange, .61 inches OD cup, x .275 inches wide, material, stainless steel, spring, main, 13.5 inches developed length x .0095 inches thick x .158 inches wide, material, elgiloy, approved source, springs (4) for release, setback detent, plunger, lockpin balance, material, steel, music, springs, plated, embrittlement, seasoned, and load tested, misc parts, pull wire, (3) clips and card, packaged with polystyrene pads. Manufacturing firms bidding on this item will require a highly competent technical staff of engineers, metallurgists, tool design engineers to design and maintain precision tools to produce precision components. This item is considered extremely difficult to manufacture to applicable drawings and specifications. No security clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-74, Fin assembly, M2, 2.375" diameter by 2.535" long and consists of 2 components, cartridge container, .94" diameter by 2.420" long, one end has .658" diameter bore extending to depth of 1.86", with a .75-.8NS-2B internal threads, .4" minimum depth, and a .830" diameter by .066" deep counterbore. The other end has a shoulder .365" from end and is threaded externally .6625-18 UNF-2A by .265" long. Sixteen .1865" diameter holes extend radially through the sidewall into the .658" diameter cavity at various locations, material, steel bar, carbon, CF, grade 1137, specification ASTM A108, fin, .0625" thick by 1.90" long, single piece construction consisting of two blades and a hub area. Blades are .718" wide, 52 degrees apart and slotted .20" wide by .82" long. Hub area contains 2 .25" diameter holes prior to forming of the .47" hub radius, 4 fins per assembly are located

on 90 degree centers and copper brazed to cartridge container. Final protective finish, specification MIL-STD-171, finish number 5.1.1 and 20.1 olive drab No. X34087. The fin assy., is considered not difficult to produce. No security clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-75, Fuze, PD, M557 assy is an end item consisting of fuze, pd, M48A3 assembled with booster M125A1. Fuze, pd, M48A3 consists of 5 major components, body, 2.412" diameter by 1.935" long with machined steps of smaller diameters and drilled holes. The base has 1.7-14 NS 1A external thread, the same base also has 1.375-24 NS 1B LH and 1.06" diameter by .805" deep counterbore. Material, steel, bar, 1117-1120, cold finish, ASTM A 108, Alternate material, steel, forging, FS 1117 for FS 1118, specification MIL-S-13048. Head, 1.760" long by 1.03" diameter, with nose tapered to .535" and various size internally drilled cavities, material, aluminum alloy, rod, 2011-T3 or 2024-T4, ASTM V211, Ogive, cone shaped 2.315" diameter tapered to 1.01 inch smaller diameter with wall thickness .052" material, steel, cold-rolled strip, temper No. 5, finish no. 2, ASTM A109, Tube, flash, 1.605" long by .4415" diameter, .167" hole drilled length-wise through center, .4375-20-UNF-2A thread both ends, material tube, steel, seamless, CD, 1137, specification QQ-T-830 or steel, bar, FS 1035 or 1137, ASTM A-108 or steel, tubing, AMS 5082, Delay, plunger M1, consists of 13 components, namely plunger pins, springs, spring plates, plunger body, firing pin shell, plunger support, plunger restraining spring, lock check washer, guide pin, and firing pin, that are easy to manufacture and assemble. Other minor components consist of interrupter, disc, springs, washer, screw, firing pin, etc. That are easy to manufacture and assemble. This item is not considered difficult to manufacture. No security clearance required to obtain APP. AP-USAMUCOM.

APPI No. AP-33 Rev 1, Mine, APERS, M18A1, parts arrangement, 12 components, 8.464 inches long by 3.968 inches wide by 4 inches high with leg and bracket assembly. Ball, 700 each, .221 spherical diameter material, steel, bar, C1015 to C1020 specification QQ-S-633, alternate, steel, wire, 1015 to 1020 specification QQ-W-461, carburized, case depth, .045 specification QQ-T-830, heat treat to surface hardness of rockwell C43 to C52, Case, 8.464 inches long by 3.968 inches wide by 1-3/8 inches high on a curved radius by 78 inch additional width for sighting section, one piece, material, plastic, polystyrene glass filled, type I, specification MIL-M-21347, Color green, similar to No. 34096 or 34102 of federal std-595, Cover, 8.651 inches long by 3.63 inches wide by 5/16 inches high, material, same as case above, segments and sections of case and cover are made up of varying wall thicknesses. Bracket, angle 2 ea, right angle, each leg .705 inches long by .52 inches wide by .125 inches thick with two .196 inch diameter holes, material, steel, strip, hot rolled, specification, ASTM-A415, Leg, 4 ea, 4.398 inches long by .265 inch wide by 1.25 inch thick with .64 inch diameter one end, material, steel, strip, hot rolled, specification ASTM-A415, Washer, 3502-10-56 stainless steel or government engineering approval required, Rivets, 4 ea, approved source, military standard, Washer, 92 ea, military standard, Cup, well, 2 ea, cup shape, 1.57 inches long by .281 inch diameter by .010 inch thick with .385 inch flange edge, material, aluminum alloy, sheet, 1100F, specification ASTM-B-209, Shipping plug, priming adaptors, eccentric shape, threaded both ends, with .25 inch hole one end, .32 inch hole opposite end, material, plastic, polyethylene, molded, type I class, L, specification L-P-390 color same as case and cover. Balls to be bonded inside case using devcon B-1835 in a matrix. Mine case and cover shall meet stringent load requirements of 175 lbs respectively, plus rigid hot and cold temperature conditioning and testing. Tooling and molding process equipment is extensive and requires a high fabrication process capability, with rigid control of basic molding materials. Manufacturing firms bidding on this item will require metallurgists, plastic technicians, engineers and tool design engineers to design and maintain precision tools for mass production of large quantities of this item normally required by the Army. This item is considered extremely difficult to manufacture. No security clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-77, Fuze, PD, M525, less head assembly, metal parts for, consists of 13 components, the major components are body, truncated cone, 1.77 inches long, maximum outer diameter of 1.93 inches, 1-1/2 - 12 thread side diameter of 1.93 inches with a 1-1/8 - 20 on the outside of the base with 4 bores, counterthread in the nose, various holes, bores, counterbores and threads, material, aluminum alloy rod B8 or B, ASTM B211 or 2011, T3, ASTM B211, alternate material, aluminum alloy, casting, alloy SC 84A or B, ASTM B85 or SC 64D, ASTM permanent mold, casting, alloy, long, shank diameter, .155 inches, long, ASTM B16, Alternate material, material, brass rod, ASTM B16, Alternate material, for upset or cold finished, ASTM steel bar, 1010 or 1020, as cold finished, ASTM

A108, pin, slider, guide, .575 inches long, slotted head with 1/4-28 thread on outside diameter, material, steel, bar, cold finished, 1117, 1212, 1213, ASTM A108, cup, booster, .83 inches long, 1.128 inches outside diameter, wall thickness varies from .110 to .064 inches, 1-1/8 - thread on outside diameter for approximately .225 inches at top of cup, material, aluminum alloy die casting compositions 12B, S12A, or SC 84A, ASTM B85, alternate material, aluminum alloy sheet, 1100, 3003, or 5052, ASTM B209, slider, .82 inches long, .462 inches in diameter, various slots, holes, material, aluminum alloy rod, ASTM B211, smaller components, consists of three helical springs, two plugs, a pin, and a safety wire. This item is considered difficult to produce in accordance with the applicable specifications.

APPI No. AP-78, Classified, Fuze, Grenade, M217, Confidential clearance required to receive APPI.

APPI No. ME-91, Crushing, Screening and Washing Plant, Diesel engine and electric motor driven, 225 Tons per hour; consisting of mobile crushing units and auxiliary mobile equipment on pneumatic rubber tired wheels, arranged for towing behind trucks or tractors; complete with power units, electric drives, and conveyors for receiving raw materials, passing materials from unit to unit during processing, and stock piling finished product; 5 industrial type diesel engines; 5 electric motors, 208-416 volts; 60 cycles, 3 phase; 2 centrifugal pumps, gasoline engine driven; electric generator set, diesel engine driven, 100 KW standard Military set. This plant is used for the production of crushed rocks and crushed sand from gravel pits and rocks quarries for use as aggregate in cement concrete, asphaltic concrete, bituminous mixtures, or compacted road surfacing material. In accordance with MIL-C-13962A; FSN 3820-527-8577. No security clearance required to receive this APPI. USAMEC.

APPI No. ME-92, Mixer, Rotary Tiller, S stabilization, self-propelled; the mixer consists of a rotary soil tiller driven by an industrial type diesel engine; and additive pump, gasoline engine driven, rotary positive displacement pump delivering liquid additives to spray bar at 200 GPM a spray bar, adjustable to handle any discharge rate between 40 GPM and 200 GPM with quick acting type shutoff; speed indicator in feet per minute; with 2 sets of flat hook type tines; all components mounted on a welded steel chassis, with 4 pneumatic tired wheels; equipped with lift and tie down attachments and tool box. The line and tie down attachments and tool box. The mixer shall pulverize fine grained inorganic soils to a depth of 6 inches at a speed of 46 feet per minute. Mixer is intended to be used for mixing and blending stabilizing materials with subgrade soils in preparation of roads and airfields. In accordance with MIL-M-13081B; FSN 3895-254-8669. No security clearance required to receive this APPI. USAMEC.

APPI No. ME-93, Refrigeration unit, mechanical, panel mounted for refrigerator, prefabricated, panel type; consisting essentially of the evaporator section, air cooled condenser section and a heat shield insulating panel structure between evaporator and condenser sections. Corrosion shall be enclosed within a welded housing, and entire unit enclosed in a housing. Industrial type gasoline engine, with electric der, air cooled, producing 1300 lbs; cranking system; max. unit, type 12; compressor, reciprocating, driven open type; all electrical equipment of unit at 0 degrees F; UL Stds; 10,000 BTU; 55 degrees F 18,000 BTU/HR; unit shall be complete with accessories, instruments and necessary to provide and maintain a refrigerator temperature at any setting between minimum 10 degrees F and plus 50 degrees F. Units are mounted with evaporator section extending into opening provided in prefabricated refrigerator box. Units are intended for world wide military use under adverse climatic and operating conditions without added protection from the elements. In accord with MIL-R-13312 D; FSN 4110-717-5384. No security clearance is required to obtain this APPI. USAMEC.

APPI No. EA-27, Fuze, M201A1, FSN 1330-293-9516, The M201A1 pyrotechnic fuze, is used to ignite various chemical munitions such as smoke, incendiary and riot control, hand grenades. This fuze consists of the following metal components: (a) zinc die cast body; (b) metal stamped safety lever and striker assembly; (c) tempered striker spring; (d) hinge pin; (e) pull ring with cotter safety pin. The assembled fuze uses a model No. M39 Primer and consists of a pyrotechnic delay element and ignition mixture consolidated into the fuze body. The firing sequence results when the striker assembly pierces the primer which ignites the first fire, the delay and the ignition mixture. The model No. M39 Primer is produced by the Olin Mathieson Chemical Corp. No security clearance required to obtain APPI. EA-USAMUCOM.

CANCELLED

CANCELLED

Revolutions. Crank
shaft engine
gearomatic, tried
bottom, rough to
2 wheel, 4 wheel
engines, 4 wheel
4 wheel, diesel engine

temperature of -40 degrees F. and
and as an entirely self-sustained
acoline power package, and
ing an interchangeable element.
Consisting of the following:
turning unit, combustion
needed to start the fuel system
from the control system
accessories and power

CANCELLED

Interested in Naval Weapons
tested and qualified. FSN
clearance required to obtain
M.

AV-95. Indicator, attitude.
pointer, w/o instrument lamp
section. T.

22

CANCELLED

CANCELLED

No. AT-63. Cylinder, hydraulic, for use on G741, 3/4 Ton, truck. FSN 2530-737-5400. No clearance to APPL. USATAC.

No. AT-65. Door, cab, left ass. (ass., trim and hardware) trucks. 10 ton (6x6) SNL APP G742 (1992(A/B)). FSN 2510-77-3293, N to obtain APPL USATAC.

No. **AT-67.** Door, cab right ass
ss trim and hardware) Trucks,
ton (6x6) SNL APP G742 (A
792(A/B). FSN 2150-737-3294.
ired to obtain APPI. USATAC

No. **EL-67.** Receiver-Transmitter
5. Receives and transmits fr

o. WE-37. Test Set, Ignition c
In accordance with MIL. Sp
to 15 OHMS, 0 to 100,000 (C
Microfarad scale, DC, 5 V th
leads, 9 ft. lg with insulated
Manufacturer must have equi
rical tests of the unit. N
recording

cap. Requires experience and
g and loading chemicals and
requirements handling inflamm
No security clearance is re
PL USAWECOM.

178062-1. Application, UH-1 H
147-3441. No clearance require
USAAVCOM.
9. AV-91. Pump Submerged.
Application UH-1 Helicopter. E
No clearance required to obtain
M.

having their product tested a

fied should contact the Bureau of Naval Weapons, Washington, D. C. No clearance required to obtain APPI USAAVCOM.

APPI No. AV-93. Thermometer, Type C-13B. Self indicating. Bi-metallic. In accordance with MIL-T-6508B. Application, Multiple Aircraft. FSN 6685-557-5316. No clearance required to obtain APPI. USAAVCOM.

APPI No. EL-68. Multiplexer TD-204 () (U). Provides facilities for Multiplexing pulse code modulated signals into one 48 channel pulse code modulated signal for use over video cable systems using cable assembly, special purpose, electrical CX-4245/G. No security clearance required for APPI. USAECOM.

APPI No. EL-74. Radio Teletypewriter Set AN/VSC-2(). Will provide SSB Voice, teletype and CW over 50 mile ground wave range. Set is installed in a truck, cargo, 1/4 ton - M151 equipped w/100 AMP electrical system set will be used in early phase of airborne operation. Similar to, but not interchangeable with Radio Teletypewriter Set AN/VSC- () No security clearance required to obtain APPI. USAECOM.

APPI No. EL-75. Wire WD-I()/TT. General purpose twisted pair field communication wire. No security clearance required to obtain this APPI. USAECOM.

APPI No. EL-69. Mounting MT-1029 NRC. Shock mount for Receiver-Transmitter, Radio RT-246/VRC and RT/524/VRC. Contains a junction box which serves as a voltage distribution point. Three additional power and control connectors are located on its lower portion. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-70. Distributor-Transmitter set, teletypewriter AN/GGC-9(). Used duplex one-way transmit operation of teletypewriter messages. No security clearance required for APPI. USAECOM.

APPI No. EL-71. Control. Intercommunication Set C-2298 () VRC. Provides the necessary interconnections to remotely operate a receiver-transmitter, supplies intercommunications facilities to the operator of the unit and operators within the system. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-72. Antenna AS-1729()/VRC. A vehicular mounted whip antenna for use with a frequency modulated vehicular communications system operating in the frequency range of 30 to 75.95 mc. Matching unit is automatically adjusted to tune the antenna to perform at any frequency to which the radio set is tuned. No security clearance is required to obtain this APPI. USAECOM.

APPI No. EL-73. Radio set AN/PRC-25(). A short-range portable man-pack, battery operated FM Radio Set, for use over the freq. range of 30 to 75.95 MC. Capable of operating from a 24 V vehicular system when used with Amplifier-Power Supply Group OA 3633/GRC. No security clearance required to obtain this APPI. USAECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated July 5, 1966 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AT-68. Differential Steering Control Assembly. The ORD 10875026 differential steering control is a component of the control system for tracked vehicles and is a manual operated mechanism used for pivot steering. This control assembly consists of the following components: a. case, b. input shaft, c. output shaft, d. band type brake, e. gear shafts, f. drive gears, g. anti-friction bearings, h. internal linkage, i. gaskets, j. seals, k. o-rings l. self locking nuts, m. hydraulic hose, n. common hardware. SNL APP G294 (A/B) G312A. FSN 2520-714-6135. No clearance required to obtain APPI. USATAC.

APPI No. AT-69. Regulator Generator, 25 AMP, 24 Volt. The ORD 8360020 Generator Regulator is used to control charging rate and voltage output of the engine mounted generator. It is a self-contained sealed unit normally mounted in engine compartment of vehicle. This regulator assembly consists of following components: a. cast base, b.

cast cover, c. sealing gaskets, d. terminal box, e. voltage regulator assembly, f. current regulator assembly, g. circuit breaker assembly, h. cover studs. SNL APP G245, G268, G289, G740, G741, G749, G838, G863. FSN 2920-335-4677 optional w/2920-953-9784. No clearance required to obtain APPI. USATAC.

APPI No. AT-70. Transmission Assembly. The ORD 10872096 transmission is used transmit driving power from the engine through selected gear ratios and speeds to driving wheels. This transmission is classed as a conventional synchromesh type with provision to mount a power take-off unit. This transmission assembly consists of the following components: a. case, b. cover assembly, c. clutch housing, d. attaching parts, e. shift mechanism, f. gear shafts, g. gears, h. anti-friction bearings, i. seals, j. gaskets, k. common hardware. SNL APP G863 (A) FSN 2520-884-4833. No clearance required to obtain APPI. USATAC.

APPI No. AT-71. Generator, Engine Accessory, 25 AMP, 24 Volt. The ORD 10950805 generator is an engine mounted, belt driven accessory used to generate electric current for vehicle operation, and in conjunction with a generator regulator is a major component of vehicle electrical system. This generator assembly consists of the following components: a. armature, b. field coils, c. carbon brushes, d. brush holders, e. cast end bells, f. anti-friction bearings, g. steel shell, h. lubrication fittings. SNL APP G741 (A/B) G749 (A/B) G838 (A) FSN 2920-903-9534. No clearance required to obtain APP. USATAC.

APPI No. AT-72. Master Cylinder Assembly. Hydraulic. The ORD 7411070 master cylinder assembly is a component of the air hydraulic brake system. Movement of the brake pedal linkage causes a piston in the cylinder assembly to force fluid into the air hydraulic cylinder which in turn through an air hydraulic piston actuates the wheel brake cylinders. This cylinder assembly consists of the following components: a. cast body, b. aluminum piston, c. steel spring, d. plastic cups, e. bleeder valve, f. brass elbow. SNL APP G744 (A/B) FSN 2530-741-1070. No clearance required to obtain APPI. USATAC.

APPI No. AT-73. Boot Assembly. Steering Knuckle. Front. The ORD 8327123 boot assembly is used to protect the exposed bearing surface of the steering knuckle during vehicle operation. This boot assembly consists of the following components: a. non-metallic boot with attached zipper, b. steel inner boot clamp with screw and nut, c. stamped steel outer boot clamp, d. screws for securing outer clamp ring to steering knuckle housing. SNL APP G744 (A/B) FSN 2530-832-7123. No clearance required to obtain APPI USA TAC.

APPI No. AT-74. Head Cylinder w/valve Assembly. The ORD 8345154 cylinder head is a finish machined engine component which when installed completes the combustion chambers and valve assembly for respective engine. This head assembly consists of the following components: a. cast cylinder head, b. valve guides, c. valve locks, d. intake valve oil seal, e. valve springs, f. retainers, g. pipe plugs, h. expansion plugs, i. water nozzles, j. intake valves, k. exhaust valves, l. exhaust valve seat inserts. SNL APP G742 (A) G83H FSN 2805-040-2204. No security clearance required to obtain APPI. USATAC.

APPI No. AT-75. Winch Assembly, rear mounted. The ORD 7409980 winch is used on medium wrecker trucks and is mounted on wrecker body to rear of crane. It is a worm geared horizontal drum type equipped with internal automatic brake; level wind; and manual controlled (pneumatic operated cable tensioner. This winch assembly consists of the following components: a. cast drum, b. driving mechanism, c. automatic brake, d. swivel sheave assembly, e. level wind, f. cable tensioner, g. cable, h. mounting frame, i. controls. SNL APP G744 (A/B) FSN 2540-740-9980. No clearance required to obtain this APPI. USATAC.

APPI No. AT-76. Track Assemblies and Components for Combat Vehicles. This is an advanced planning procurement listing of critical items defined by nomenclature and Federal Stock Number. Current and future fiscal year requirements for each of the listed items are being generated and will be available on request during the month of July 1966. In some instances, qualification tests are required and specified. No clearance is required to obtain this APPI. USATAC.

APPI No. ME-15R1. Revision. Scraper, Earth-moving, towed. Shall be air transportable, pneumatic-tired, hydraulically controlled, and towed by tractor with 10000 lb. capacity hauling and discharge capacity. The towed scraper may be used as a 4-wheel or 6-wheel scraper. Capacity of not less than 18 cubic yards. The components of the scraper shall withstand any ambient temperature from minus 25 degrees to plus 125 degrees, F.

The scraper shall withstand operation over unimproved terrain, convoy operations, and earthmoving operations under varying weather conditions and on 20 per cent side slopes without breakage or permanent deformation. Shall load undisturbed soil, haul, dump or spread the soil, operate at a max. speed of 25 mph and an average speed of 20 mph when hauling heaped loads. Load, without the use of a pusher tractor, undisturbed soil to a struck capacity of 18 cu. yards in 75 to 90 seconds. Cut at all depths from ground level to 15 inches below ground level. The scraper bowl shall be of the front loading, open-bowl type complete with apron, blade base, ejector, cutting edges, and side bits. A push plate shall be provided at the rear of the scraper, also one or more rear towing hooks able to withstand a pull of 100,000 pounds, min. throat opening 1-1/2 inches. Scraper shall be provided with tiedown attachments. Scraper is intended for general earthmoving work in the construction of roads and airfields. In accordance with MIL-S-52271; FSN 3805-990-4214. No security clearance required for APPI. USAECOM.

APPI No. ME-16R1. Revision. Generator Sets, gasoline engine driven. 1.5 KW, alternating current, air cooled, portable, tubular frame, shock mounted. 60 cycle, 240 volts line to line, single phase, 1.0 power factor, self-excited. Equipped with a military standard engine. Model 2A016, manually cranked by rope, overall dimensions 27-3/4 in. long, 20-3/8 in. wide, and 18-1/2 in. high. Operating speed for the set is 3600 rpm. The sets are intended to supply power for general purpose use. In accordance with MIL-G 52282, type 1; FSN 6115-889-1446. No security clearance required for APPI. USAECOM.

APPI No. ME-20R1. Revision. Boat Bridge Erection, inboard engine. Two sections, aluminum hull, gasoline engine driven, two engines, 90 BHP per engine, twin screw, overall dimensions 27 feet long, 8 feet 2 in. wide. Boats are intended for pushing and maneuvering components of floating bridge. In accordance with MIL-B-13994; FSN 1940-27-9726. No security clearance required for APP USAECOM.

APPI No. ME-22R1. Revision. Compressor, Rotary, Power Driven. 250 cfm free air delivered at 100 psi discharge pressure. The air compressor shall consist of a diesel engine, a compressing unit, safety equipment, a housing, a receiver, cooling and regulating systems and related piping, gauges, instruments and controls on a single unified steel frame mounted on a 2-wheel, pneumatic tired trailer, with suspension provisions for air delivery. With an adjustable automatic regulating system, industrial type Diesel Engine (MILIE-11276) with a flexible coupled drive, individual air cleaners for the engine and compressing unit. Trailer chassis, ORD model M-353. The compressing unit shall be rotary of the sliding-vane or axial-screw type, operating at a speed of not more than 1,800 rpm. The housing to enclose the compressing unit, engine and instrument shall be constructed of sheet steel not less than 0.075 in. nominal thickness. Air receiver shall be constructed in accordance with ASME Boiler and Pressure Vessel Code, discharge line equipped with an air service manifold with 3/4 inch individually controlled service outlets. Equipped with two hose reels capable of handling not less than one 50 foot length of air hose, 3/4 inch nominal size. With lifeline and tiedown attachments. The compressor shall start and operate continually at ambient temperatures from minus 25 degrees F to plus 120 degrees F and at any elevation between sea level to 5000 feet. The compressors are intended for use as portable sources of compressed air. In accordance with MIL-C-00555D; FSN 4310-984-5741. No security clearance required for APPI. USAECOM.

APPI No. ME-23R1. Revision. Lubricating and Servicing Unit, Power Operated. The lubricating and servicing unit (lubricator) shall consist essentially of the following components: An enclosure, a 3-compartment lubricant container, air powered pumps, air compressor, air receiver engine, hose, hose reels and accessories. The lubricator components shall be assembled to a welded steel framework to form a self-contained unit mounted on a two wheel trailer. The lubricator shall supply lubricants and compressed air for the maintenance of equipment under both normal and extreme climatic conditions. The gross weight of the lubricator including accessories and lubricant container 3/4 full, shall not exceed 3,175 pounds. The sheet aluminum for enclosure shall be 0.0040 in. min. nominal thickness. The lubricant container consists of a rectangular tank with 3 compartments not less than 27 gallons, with a heat reservoir surrounding the compartment and a separate bottom heat compartment. Lubricant pumps shall be an industrial-type heavy duty, reciprocating, air-powered pump operating at an air pressure of 120 psig, provided with an adapter to permit use of 120 pound drums. One transfer pump, air-powered, reciprocating, not less than 1 to 1 ratio, furnished and fitted for use with 55 gal oil drums, with an extension, adapters, hose and other accessories.

for double ply fabric of 8.4 to 8.8 for the outside ply and 2.3 to 2.5 for the inside ply. Single ply fabric 13.0 plus or minus 0.2 ounce per sq. yd. Coating compound shall be resistant to hydrocarbon fuels. Tank shall be fabricated and vulcanized as a complete unit in a steam pressure-type autoclave. Tank handles shall be of rubber coated, nylon fabric and withstand a pull of 1,000 pounds for not less than one minute. Tank shall not leak and there shall be no evidence of seepage when the tank contains 10,000 gallons of fuel, no air leakage when under an internal pressure of 1 psi. Vent assembly, pressure relief valve shall open when tank is subjected to an internal pressure of 3 inches of water. Filler elbows assemblies shall withstand a hydrostatic pressure of 15 psi without failure. Tank is made in accordance with DL 13200E6380 and MIL-T-12260. The tank assembly is intended to be used for the storage of hydrocarbon products in connection with lightweight hose line fuel supply systems. The complete Tank Assembly shall conform to Drawing D-13200E6370. Components are listed in the Army Supply Catalog SC5430-93-CL-101; FSN 5430-641-8552. No security clearance is required to obtain APPI. USAWEC.

APPI No. ME-28RI, Revision. Ditching Machine, diesel engine driven, ladder type. The ditching machine shall be a self-propelled, diesel engine driven, four-wheel steered supported by four earthmover tires and four wheel or rear wheel wheel driven. Equipped with a rear mounted digging mechanism and a reversing, side discharge belt type spoil conveyor. Shall dig trenches 24 inches wide and from 6 to 6 feet deep at a rate of not less than 20 feet per minute. The digging mechanism shall consist of a bucket line drive, digging boom assembly, spoil conveyor, the attachment and support components between the digging boom and the carrier, and the follow-up scraper. The industrial type diesel engine, including all the components, accessories, and auxiliaries shall conform to MIL-E-11276. The 4x4 drive train shall include components to provide continuous all wheel drive. Equipped with a hydraulic power assist steering system and linkage of the Ackerman type. Compressor shall be water cooled, engine driven, 12 cfm at 120 psi. Two towing lug pad eyes conforming to MS 500004 for use on 15 ton trucks shall be installed on the front bumper. With a 24 volt, waterproof, vehicular electrical system for service and blackout night travel operations, for floodlighting work area at night, for slave starting engines of other vehicles, and for charging batteries and starting the engine. Equipped with lifting and tiedown attachments. Ditcher shall perform at any ambient temperature from plus 120 degrees F to minus 25 degrees F. The ditcher is intended for use in general purpose ditching and digging foxholes and slit trenches. In accordance with MIL-D-52091; FSN 1805-633-5794. No security clearance required to obtain APPI. USAWEC.

APPI No. ME-28RI, Revision. Bridge Unit, amphibious, mobile, floating, assault, interior bay, 12-1/2 ton, diesel engine driven, self-propelled, convertible crane-shovel, clamshell, pile driving shovel operations, and backhoe operations. The hull is an amphibious, self-propelled, convertible carrier for the bridge superstructure. The unit is a water transportable, amphibious, four by four chassis. The wheels are fully retractable in wheel wells. The superstructure is mounted on the chassis, and the chassis is supported by a diesel engine through a transmission and drive shaft. The hull contains all the components and accessories as required to transport, provide actuation power and maintain position for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the end bay (stamp unit) used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is lowered by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections, male and female adapters for rigid forming of bridge sections. In accordance with MIL-H-52355, MIL-B-52355, and MIL-S-52355; FSN 5420-010-5192. No security clearance is required to obtain APPI. USAWEC.

APPI No. ME-28RI, Revision. Bridge Unit, amphibious, mobile, floating, assault, and bay; interior bay, 12-1/2 ton, diesel engine driven, self-propelled, convertible crane-shovel, clamshell, pile driving shovel operations, and backhoe operations. The hull is an amphibious, self-propelled, convertible carrier for the bridge superstructure. The unit is a water transportable, amphibious, four by four chassis. The wheels are fully retractable in wheel wells. The superstructure is mounted on the chassis, and the chassis is supported by a diesel engine through a transmission and drive shaft. The hull contains all the components and accessories as required to transport, provide actuation power and maintain position for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the end bay (stamp unit) used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is lowered by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections, male and female adapters for rigid forming of bridge sections. This hydrostatic operated section can accommodate barge to ten feet above water level and 2 feet below water level. In accordance with MIL-B-52355, MIL-H-52355, and MIL-S-52355; FSN 5420-010-5192. No security clearance is required to obtain APPI. USAWEC.

APPI No. ME-28RI, Revision. Tank Assembly, fabric, capacity 10,000 gallon capacity, for storage of petroleum products. The tank shall consist of a double, barrier, type, with a vent pipe assembly, an internal pressure relief valve, and a filler elbow. The tank and its components shall be capable of withstanding temperatures from plus 150 degrees F to minus 40 degrees F. Unless otherwise specified, the body fabric shall be double ply fabric shall be nylon-66 square woven cloth with a weight (in ounces per sq. yd.)

for double ply fabric of 8.4 to 8.8 for the outside ply and 2.3 to 2.5 for the inside ply. Single ply fabric 13.0 plus or minus 0.2 ounce per sq. yd. Coating compound shall be resistant to hydrocarbon fuels. Tank shall be fabricated and vulcanized as a complete unit in a steam pressure-type autoclave. Tank handles shall be of rubber coated, nylon fabric and withstand a pull of 1,000 pounds for not less than one minute. Tank shall not leak and there shall be no evidence of seepage when the tank contains 10,000 gallons of fuel, no air leakage when under an internal pressure of 1 psi. Vent assembly, pressure relief valve shall open when tank is subjected to an internal pressure of 3 inches of water. Filler elbows assemblies shall withstand a hydrostatic pressure of 15 psi without failure. Tank is made in accordance with DL 13200E6380 and MIL-T-12260. The tank assembly is intended to be used for the storage of hydrocarbon products in connection with lightweight hose line fuel supply systems. The complete Tank Assembly shall conform to Drawing D-13200E6370. Components are listed in the Army Supply Catalog SC5430-93-CL-101; FSN 5430-641-8552. No security clearance is required to obtain APPI. USAWEC.

APPI No. ME-28RI, Revision. Ditching Machine, diesel engine driven, ladder type. The ditching machine shall be a self-propelled, diesel engine driven, four-wheel steered supported by four earthmover tires and four wheel or rear wheel wheel driven. Equipped with a rear mounted digging mechanism and a reversing, side discharge belt type spoil conveyor. Shall dig trenches 24 inches wide and from 6 to 6 feet deep at a rate of not less than 20 feet per minute. The digging mechanism shall consist of a bucket line drive, digging boom assembly, spoil conveyor, the attachment and support components between the digging boom and the carrier, and the follow-up scraper. The industrial type diesel engine, including all the components, accessories, and auxiliaries shall conform to MIL-E-11276. The 4x4 drive train shall include components to provide continuous all wheel drive. Equipped with a hydraulic power assist steering system and linkage of the Ackerman type. Compressor shall be water cooled, engine driven, 12 cfm at 120 psi. Two towing lug pad eyes conforming to MS 500004 for use on 15 ton trucks shall be installed on the front bumper. With a 24 volt, waterproof, vehicular electrical system for service and blackout night travel operations, for floodlighting work area at night, for slave starting engines of other vehicles, and for charging batteries and starting the engine. Equipped with lifting and tiedown attachments. Ditcher shall perform at any ambient temperature from plus 120 degrees F to minus 25 degrees F. The ditcher is intended for use in general purpose ditching and digging foxholes and slit trenches. In accordance with MIL-D-52091; FSN 1805-633-5794. No security clearance required to obtain APPI. USAWEC.

APPI No. ME-98. Crane-shovel, crawler mounted, 12-1/2 ton, diesel engine driven. A power excavator, convertible crane-shovel, consisting essentially of crawler mounting, full revolving superstructure and front end attachments. Shall be complete, and ready for operation, capable of being converted for use in crane, clamshell, dragline, pile driving shovel operations, and backhoe operations. The crane-shovel, equipped with crane boom, shovel front, or backhoe attachment, shall be capable of traveling over rough ground or under adverse or severe conditions, 3/4 cu. yd. shovel capacity and 3/4 cu. yd. backhoe capacity. With a crane boom 30 feet long and 82 degree max. angle. The industrial type diesel engine shall conform to MIL-E-11276. Shall be capable of traveling in a forward or backward direction, capable of being steered either to the right or left, capable of ascending or descending a 30 percent grade. Ground clearance not less than 9-1/2 inches. Capable of operating in any ambient temperature from plus 125 degrees F to minus 25 degrees F. Top of revolving superstructure cab shall be equipped with two light housings equipped with floodlights. In accordance with MIL-C-15467; FSN 3810-926-1031. No security clearance required to obtain APPI. USAWEC.

APPI No. WE-39. Aperture, P/N C7791011, a brazed steel small arms gun sight component stamped, formed, milled, brazed, heat treated and phosphate coated. Moderately difficult part to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-40. Key, windage, P/N B7791020, a small arms weapon sight part precision cast steel or forging, case or machined to dimensions, heat treated and phosphate coated. Moderately difficult part to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-41. Nut, locking, P/N B7791021, a small arms weapon sight part steel, screw machine item, heat treated and phosphate coated. Relatively easy item to produce. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-42. Pin, firing, P/N B7790628, a small arms weapon part, 6150 steel, turned milled, heat treated. Moderately difficult to make. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-43. Retainer, P/N B7790643, a small arms weapon part, alloy steel, turned, drilled, heat treated and phosphate coated. Relatively easy to manufacture. No security clearance required to receive APPI. USAWECOM.

APPI No. WE-44. Screw, P/N B7790647, a small arms weapon, special screw 10-32 NF-2A threads, special filler heat, slotted, 8620 steel heat treated. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-45. Guard assembly, trigger, P/N C7790613, a small arms weapon part, two stamped steel parts riveted together, drilling, counter-sinking and deburring required. Phosphate finish. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-46. Spring trigger, P/N B7790641, a small arms weapon part. A stamped and formed flat spring, heat treated. Relatively easy to make. No security clearance required for APPI. USAWECOM.

APPI No. WE-47. Screw driver and wrench combination/brush, P/N B7791570, a special tool for small arms weapons, machined, heat treated and assembled with brush. No security clearance required for APPI. USAWECOM.

APPI No. WE-48. Base frame, P/N D77991012, a small arms weapon part, precision alloy steel casting or forging, machined, graduation lines inscribed, heat treated, phosphate coated. Moderately difficult to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-49. Plunger, P/N A7791022, a small arms weapon part, a small high carbon steel solid pin with spherical radius on one end, heat treated and phosphate finish. Relatively easy to produce. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-50. Screw, aperture, P/N B7791024, a small arms weapon part, a special screw, 2-64 thread, with shoulder and button heat, medium carbon steel, heat treated phosphate finish. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-51. Screw, windage, P/N C7791026, a small arms weapon part, a special screw, 1-28 thread, large thumb grip head, shoulder under head, turned diameter at point. Heat treated and phosphate finish. Moderately difficult. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-52. Spring, helical, P/N B7791027, a small arms weapon part, .018 music wire free length, .937 coil diameter .090 ends closed, and ground stress relieved, no surface treatment. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-53. Base sight, P/N D7791013, a small arms weapon part made from a precision steel casting or a forging, machined, heat treated and phosphate coated. Moderately difficult to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-54. Bracket, P/N C77910141, a small arms weapon part, precision alloy steel bar or precision steel casting, machined, heat treated, phosphate coated. Moderately difficult to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-55. Frame assembly, P/N C7791015, a small arms weapon part, precision alloy steel, stamped, machined, drilled, and graduated, heat treated, phosphate coated. Moderately difficult assembly to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-56. Arm cocking, P/N C7791353, a small arms weapon part, precision alloy steel casting or forging, heat treated and phosphate coated. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-57. Bracket, fore end, P/N C7791355, a small arms weapon part, precision steel casting or forging, medium carbon steel, machined, heat treated and phosphate finished. Moderately difficult. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-58. Sight, front, P/N D7791568, a small arms weapon part, precision steel casting or forging, machined, heat treated and phosphate finish. Relatively easy to make. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-59. Case, P/N F7790630, a small arms accessory case, cotton duck and webbing with eyelets. Typical canvas product stitched and riveted construction. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-60. Thong, P/N B7790631, nylon cord with a served loop on each end. About 24 in. long. No security clearance required to obtain APPI. USAWECOM.

APPI No. WE-61. Brush, cleaning, P/N A7790

667, synthetic bristles held in a crimped aluminum ferrule with a short threaded steel wire core. No security clearance required to receive APPI. USA WECOM.

APPI No. WE-62. Spring, helical, P/N B7791028, .01 SIC wire spring, coil diameter .057, free length .247, ends closed and ground, square, stress relief no finish. No security clearance required to obtain APPI. USAWECOM.

APPI No. MI-57. Alignment Test (Transmitter, Shillelagh. This is an alignment telescope) which is temporarily attached to the transmitter to verify the mechanical alignment of the transmitter with respect to the target. No Federal stock assigned. Procurement may be a small business set-aside. CONFIDENTIAL clearance required to obtain APPI. USAMICOM.

APPI No. MI-58. Chaparral Missile Launch and Control Pallet mounted on GFE tracked vehicle with Organizational and Field Maintenance Shop Sets. The pallet is constructed as a self contained unit with a central gunner's turret with 4 launch rails, 2 on each side. The Launcher and Control Pallet is capable of being removed from the vehicle and temporarily mounted on other vehicles or on the ground. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. EL-76. MESSAGE CENTER AN/GSQ-80. Provides complete facilities for receipt, sorting and distribution of mail as well as providing other message center functions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-77. REPEATER SET RADIO AN/TRC-110. Provides a 12 or 24 channel radio repeater for use between Corps and Army within the Army Area Communication System. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-78. TRANSMITTING SET, RADAR DATA AN/ART-18. Compresses the target video and encodes data obtained from the Radar Surveillance Sets AN/APS-94 or AN/APS-94A, into suitable form for modulation of an FM transmitter which transmits data over a UHF link to the ground station Receiving Set, Radar Data AN/TKQ-2 for further processing. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-79. RECEIVING SET, RADAR DATA AN/TKQ-2. Receives encoded radio signals from the Transmitting Set, Radar Data AN/ART-18, separates video data from synchronizing and navigation data and presents the video signals on CRT's. Includes facilities for progressively processing and viewing photographic film. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-80. SURVEILLANCE INFORMATION CENTER INFRARED. Receives information from the Detecting Set, Infrared AN/AAS-14 processes it and presents the information to the operator visually on the Indicator, Terrain Display IP-595/U and at the same time is recorded on photographic film for later developing and interpretation. No security clearance required to obtain APPI. USAECOM.

APPI No. AV-95R-1. Indicator, attitude stabilization, with fluorescent lamp. 30 CPS 3-phase.

CANCELLED SEPT 6, 1966
Interested parties should contact Wright Patterson AFB, to have their product tested and approved. No clearance required to receive APPI. USAVCOM.

APPI No. AV-96R-1. Indicator, turn and slip. Integral stabilization, pointer, 1. Used to show pitch of Acft., fluorescent finish, w/o instrument lamp, 28V DC, electrical connection, 1, 3-pin contacts, AN3102C-1051-3P, O/A dim., 5.5 in. deep, 3.5 in. H, panel mid., MIL-1-7805, Type MD-8, FSN 6610-580-7922. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-97. Cancellation of APPI. Previously published as AV-97 in June 7 1966 issue of Commerce Business Daily, this APPI is hereby cancelled on request of the requiring activity of this command. AV-97, altimeter, pressure, is replaced by AV-101, this issue. USAVCOM.

APPI No. AV-101. Altimeter, pressure. Type AA U-8/A. In accordance with MIL-A-27229A (USAF) w/amendments, FSN 6610-722-0967. Appl., multiple aircraft. This is a QPL item. Interested concerns should contact Wright-Patterson AFB, to have their product tested and approved. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-102. Indicator, temperature, electrical resistance. Dial, 1 scale, temp., scale, minus 50 deg., to plus 50 deg., C scale range, 5 deg., graduated increments, finish of graduations, fluorescent letters, numerals and lined increments, Dia. of dial per MIL-1-8075, pointer, clock hand type, fluorescent illuminated, encased, w/o instrument lamp socket, electrical, 24 V DC, 1 electrical connection, 4 pin contacts, and 10066D1452P, O/A dim., per Mil std MS28008, panel mtg., type, Dia. of body per MS28008, MIL-1-8075, MS28008, MS6685-11, FSN 6685-557-0372. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-103. Shipping and storage container, transmission. Steel, enameled finish, cylindrical, designed for mtg., the item to be accommodated W/its longitudinal axis perpendicular to the base., O/A dim., 3 ft 9 1/2 in. dia., 4 ft 9 in. H., P/N 204-030MUSC1 transmission to be accommodated. FSN 8115-701-9867. This procurement will be a 100% small business set-aside. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-104. Trailer, aircraft engine. Frame, aluminum, riveted, wheel, 4.21 in. dia., pneumatic tires, O/A dim., 97 in lg., 56 in wide, 41 1/2 in. H., w/drawbar, pole, designed for J33, 35, 47, 48, 65 T34, 40 and 56 engines. FSN 1740-516-7929. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-105. Pump, submerged aircraft. For use on CH-47 rotary wing aircraft. FSN 2915-780-4413. Lear Siegler P/N RG12200A and vertol P/N 114P4111-2 and 11404111-2. No clearance required to obtain APPI. USAVCOM.

NOTE: The APPI bearing the following numbers APPI No. AP-3, APPI No. AP-5, APPI No. AP-8, APPI No. AP-10, APPI No. AP-11, and APPI No. AP-15 are revisions (reprints) and were previously published as APPI synopses. Additional suppliers are welcomed for these APPI items.

APPI No. AP-3-Revislon 1, (APPI No. AP-3) Ammunition item metal fabrication. Projectile HE 175mm M437 mpts assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM A 273-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP-5-Revislon 1, (APPI No. AP-5) Ammunition Item Metal Fabrication. Case Cartridge 105mm XM 150B1 one piece design 24.31 inches long by 5.133 inches outside diameter at base tapered to 4.115 inches at mouth threaded and counter-bored primer hole in base. Fabricated from a spherulized 1030 steel disc. Case is fully heat-treated zinc plated and chromate treated. No clearance required. USA Munitions Command-APSA.

APPI No. AP-11-Revislon 1, (APPI No. AP-11) Loaded item - Simulator Artillery Gunflash, M110 (STD A) with squib, electric, M72 Procured loaded, wt. 69 lbs per box of 24. Container, outer, hollow black plastic cylinder, 7.81" long X 1.88" O.D. 1/2" threaded hole in top, bottom end attached to shoulder on inner container. Filling plug red plastic slotted and threaded. Container inner, hollow black plastic cylinder, 6-7/8" X 1-1/4" O.D. with external flange at base forming seat for outer container and internal thread. Pyrotechnic charge in inner container consists 80 grams composition containing magnesium powder and oxidize. Adapter holder is black plastic with well for electric squib. Requires technical staff and facilities for loading and handling of pyrotechnics. Somewhat difficult to manufacture to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-8-Revislon 1, (APPI No. AP-8) Metal Fabrication Warhead Section, GM. Training Missile, XM209 approx. 6" in dia., 20.46" long. Major components: Ogive, inert, approx. 6" dia. 4-3/4" high, .050" wall, aluminum alloy sheet 6061-0, heat-treat after forming; shroud, inert, approx. 6" dia., external key 16-1/4" long, varying wall thickness, embossed, material aluminum alloy 2014, T6 extruded; ballast, solid cylinder and cone shape, approx. 5.7" dia., 6-5/8" long, material, aluminum alloy, assembly with clinch nuts, machine screws and tapping screws. Total assembly weight must be within spec limits. Competent staff technical engineers and metallurgists required. Difficult to produce to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-10-Revislon 1, (APPI No. AP-10) Metal Fabrication - Case, Cartridge, 40MM, M118, MPTS, 1.817" long X 1.624" O.D.; varying wall thickness .062" to .030". Case "cup shape" with internal protrusion .845" dia. X .557" high in base section with six (6) .060" holes around protrusion; rim 1.719" dia. X .080" wide machines on base. Material, aluminum alloy, bar, 2024, T6; cup powder charge .406" dia. X .365" high X .0055" wall thickness with flared mouth, material, brass strip, annealed. Finished case must withstand hydrostatic test of 48,000 PSI min. 240 hr. salt spray test, hardness and pull test. Requires competent engineering staff, metallurgists and chemists. Very difficult to manufacture to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-15-Revislon 1, (APPI No. AP-15) Ammunition Item - Metal fabrication projectile TP-T 900MM M353 MPTS (4.2" max. long X 3.537" OD. Body is one piece design 10.15" X 3.537" OD. threaded nose rotating band and crimping grooves material, steel, HR carbon bars, excluding bussemer stock; rotating band 3.55" OD X 1.255" wide X .21" thick material, gliding metal, class B annealed; windshield cone shape varying wall thickness aluminum

alloy die casting comp A380 body and windshield assembled with thread sealing compound, cleaned and painted; plus of aluminum alloy anodine finish; disc., pilobond 20 sealed into plug with adhesive. Subjected to rigid inspection. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool and die engineers. Very difficult to manufacture to Government specs, in large quantity. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-67-Revislon 1, Ammunition Item - Cartridge HE M374. Mpts for 81MM Mortar Body Assembly, 10.403 inches maximum length by 3.184 inches outside diameter consists of (4) component parts, body 9.50 inches long by 3.182 inches diameter near center tapered to 2.38 inches diameter at front end and 1.835 inches at rear end with varying thickness from .185 inches to .25 inches, nose thread 2.00-12NS-1B, end bore to 1.62 inches for brazed in adapter, material pearlitic malleable iron grad 50007, Specification MIL-C-46971 physical properties yield strength 50,000 PSI minimum, .1 percent off-set elongation-7 percent minimum adapter, base, 1.26 inches long by 1.800 inches maximum diameter, one end threaded 1-1/8-18NEF-2A, material, carbon steel, special bar quality, ASTM Specification A107, or A108 applies, alternate material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 40,000 PIS minimum, .1 percent offset 10 percent minimum elongation, mechanical property requirements of MIL-C-46971 apply for alternate material, cover, base, 1.02 inch diameter by .0209 inch thick, material, cold rolled carbon steel strip, temper number 4, ASTM Specification A109 applies, Adapter, base is brazed 360 degrees to withstand 5000 PSI hydrostatic test and 150 pound PSI air test. BOD requires 100 percent ultrasonic inspection and magnaglo.

Band, obturating, 3.500 inch diameter by .187 inches thick, material, pipe, plastic, Specification PA-PD-2521, body assembly prior to assembly of band, obturating requires phosphate coat and paint. Manufacturing firms bidding this item will require a highly competent staff of Engineers, Metallurgists, Chemists and Tool Design Engineers to design fabricate and maintain precision tools required for mass production of this item. This item is considered very difficult to produce to applicable specification. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-68-Revislon 1, Ammunition Item - Projectile, body and ban assembly, WP, M375, 81 MM consisting of two components. Body, 10 inches long, varying in outside diameters from 2.595 inches at nose to 3.115 inches on bourrelet to 1.705 inches at the base, varying wall thickness .235 inches on bourrelet, .20 inches at mid-section, .185 inches at ASE section, machined internally in nose section to accept press fit burster casing, threaded externally at base to accept fit assembly, outside diameter of body grooved 360 degrees to accept obturating band, material, steel, non-resulphurized, carbon bar, hot-rolled, special quality, ASTM Specification A107, alternate material, steel, non-resulphurized, Specification MIL-S-11310, yield strength 60,000 PSI, 1 percent offset, 12 percent elongation. An obturating band 3.500 inch outside diameter by .187 inches thick, inside diameter 2.895 inches, six 60 degree by .037 inches deep grooves equally spaced inside of band, material, pipe, plastic, Specification PA-PD-2521. Firms bidding this item must have qualified Metallurgists, Chemists and Tool Designers to fabricate this item in accordance with applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. FA-36, Ctg. Cal. .22 Ball, long rifle; lead bullet, commercial design, contains non corrosive and nonmercuric primer composition, ctg. case is rimfire type: FSN1305-(A086); no clearance required. FA-USAMUCOM.

APPI No. FA-37, Ctg., Cal. .45 Ball M1911 service grade; consists of gliding metal-clad steel or copper-plated steel jacket and a slug of lead antimony; FSN 1305-(A475); no clearance required. FA USA-MUCOM.

APPI No. EA-8-R1, Cryptographic equipment destroyer, incendiary, TH4, M1A2, FSN 1375-834-8884, is a flat steel container 21" x 15" x 1-1/4", filled with approx 30 lbs of thermate (TH4), ignited either electrically or manually by means of an ignitor system consisting of two M209 electric fuzes and one M210 incendiary fuze for manual operation. The fuzing system is located in the top cover of the container which is separately assembled and slip fitted over the body and taped into place. Item is used for the emergency destruction of cryptographic equipment. No security clearance is required to receive this APPI. EA-USAMUCOM.

APPI No. ME-93, Cancellation of APPI. Refritration Unit, published previously as APPI No. ME-93, Refrigeration Unit, Mechanical, synopsis in 7 June 1966 issue of Commerce Business Daily is hereby cancelled by USAMEC.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated August 2, 1966 page 2, No. PSA 4112, page 1 that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. MIL-9 Container for Rydax Launcher. The container is constructed of two .080" thick 6061 T4 aluminum shells, top and bottom, which are joined with 10 aluminum fasteners. The shells have 4 internal supports which provide rigidity and prevent the Rydax Launcher and its cable supports from being damaged. The container is non-flammable and non-toxic. It is made to meet the Mil-9 Spec MIL-9 container requirements. It must be waterproof when closed. The environmental test MIL-9 container must have a temperature range of -65°F to +125°F. The dimensions of the container are 44.5" long by 11.5" wide x 12.5" high. While this design is acceptable it is not final. Design proposals for cable weight and sagging of the container with its working position are solicited. No Federal Stock Number Assigned. Procurement may be a small business set-aside. Confidential clearance required to obtain APPI USAMICOM.

APPI No. MH-68. Radar Beacon, X-Band, as de-
scribed in Mobile Interim Specifications (MIS) as
dated 10 March 1963, to be used for
primary and the MCM-440 Gun
Detector and Indicator
to be used for
1966
portions of

CANCELLED DEC-08-67
The following information shall be furnished by the contractor with emphasis on dimensions:
1. Net weight.
2. Dimensions including length, width and height.
3. Volume of water 1/2 of a cylinder having a diameter of 12 inches and a depth of 11 inches. Weight: 4.4 lbs. excluding external cables and associated plug.
4. The Federal Stock Number Assigned. No charge required to obtain AFPM USAMICOM.

APPLI Sols. MI-41. Contract Definition Phase for the Radar and Evaluator AN/MPQ-42. This is that phase during which preliminary design and engineering contract and management accomplished, and performance and management planning will be performed on radar evaluation AN/MPQ-42. The AN/MPQ-42 is a complete Air Defense complex including radar and defense that will be moved from the training and defense where it will be converted to tactical equipment for conducting evaluation and training to maintain the highest level of combat readiness. No Federal Stock Number required. No drawings required to obtain APPLI Sols.

APPI No. MI-02. Digital Receiver/Decoder, as
described by Missile Interim Specification MIS-10138,
dated 11 April 1966. This unit is used to precede
the digital command information and provides
digital control signals to target missile auto pilot
loop. See Federal Stock Number Assigned. No
reference required to obtain APPI USAMICOM.

APPL No. A1-96R2. Indicator, Turn and Slip.
Federal Stabilization, Pointer, 1. Used to show pitch
of soft. Components: 1. Used to show pitch
25V 500 electrical finish, w/o instrument lamp;
2. 1/2 in. high IP, 5/8 in. diam, 5 1/2 in. deep, 35 in.
4 in. 1/2 in. MIL-17675, Type MDS, FSN 6610-
1-64-4-1331. No drawings required to obtain APPL

APPI No. A3-106. Indicator, Vertical Velocity,
range range 0 ft per min ascent and descent, 0 to 3,000 ft per
minute; graduated numerals & 10 per min graduated increments;
fluorescent numerals & lined increments; w/po in.
stainless steel case; non-luminous finish; 1 point in
metal tube removable; dia dim. 1 1/4 in. inter-
nal w/w and b. bezel mm. 3-1/2 in. deep. 3-1/4
dia 10-78967 MO) MIL-1-58067(MO) FSN
APPI USAACOM.

APPI No. AV-187. Grip Assembly Controller.
flexible mfg. rate 1,155 in. min. 1,157 in. max. dia.
2 1/4 in. in. 1/2 in. hole; dim. 2.313 in. lg grip
switches. 4 push button type, top 1/2 side, middle
1/2 side & bottom 1/2 side location 1 toggle type
top aft location. 1 trigger type, upper front loca-
tion. wireless cable 60 in. lg. FSN 1680-914-
2450. No clearance required to obtain APPI. USA-
AV-187

APPI No. 33-186, Ladder, Aircraft Boarding,
equipped w/ molded rubber contour pads,
15.14 in. lg. rung or step
of steel, 17.40 in lg. stainless steel tread, equipped

APPI No. AV-109. Control, Remote, Fire Extinguisher. For use on army aircraft. Ordnance Drawing No. 7968270. FSN 1680-182-3897. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-110. Shipping and Storage Container. For aft rotor blades, appx. 25 ft in length. Anticipate that complete set of drawings will be available for competitive procurement. FSN 8115-919-0176. No clearance required to obtain APPI. 1USAAYCOM.

APPI No. AT-77. Engine, Diesel, Turbo-Charged. The Ord 5703272 engine is an 8 cylinder, V Type, turbo-charged, compression ignition power pack for a tracked vehicle. This engine assembly has the following basic characteristics: (a) 2 cycle (b) displacement—568 cu in (c) bore—4.25 in (d) stroke—5 in (e) max GHP 275,2300 RPM (f) max NHP 125/2300 RPM (g) max gross torque—950 lb/1700 RPM (h) max net torque—875 lb/1600 RPM (i) Main cooling system: liquid (j) oil cooling system: liquid (k) oil capacity—26 qts. SNL APP G308(A) Model—8V71T FSN 2815-987-8669. No clearance required to obtain APPI. USATAC.

APPI No. AT-78. Engine, multi-fuel with container. The Ord 5702688 engine is a 6 cylinder multi-fuel engine with fuel density compensator, compression ignition power pack for a wheeled vehicle. This engine assembly has the following basic characteristics: (a) 4 cycle (b) displacement—478 cu in (c) bore—4.56 in (d) stroke—4.87 in (e) max GHP 140/2600 RPM (f) min gross torque—330 ft/lbs/1400 RPM (g) main cooling system; liquid (h) oil cooling system; liquid (i) oil capacity—22 qts. SNL APP G742 model—LD 465. FSN 2815-010-5169. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-79. Engine, multi-fuel with container. The Ord 5702683 engine is a six cylinder multi-fuel engine with fuel density compensator, turbo-charged compression ignition power pack for wheeled vehicle. This engine assembly has the following basic characteristics: (a) 4 cycle (b) displacement—478 cu in (c) bore—4.56 in (d) 549 3—4.87 in (e) max GHP 210/2800 RPM (f) min gross torque—330 ft/lbs/1400 RPM (g) main cooling system: liquid (h) oil cooling—liquid (i) oil capacity—22 qts SNL APPI G744 Model LDS 465-1A FSN 2815-941-3645 (2815-075-0087). No clearance required to obtain APPI USATAC.

APPI No. AT-80, Pump, Centrifugal, water or gasoline, w/o strainer assembly. The Ord 10947442 pump is side delivery, vane type power take off driven unit used to transfer gasoline or water from the 2-1/2 ton series tank trucks. This pump assembly consists of following components: (a) cylinder (b) liner (c) 49594 2/shaft (d) vanes (e) springs (f) heads (g) covers (h) flanges (i) valves (j) seal (k) antifirition bearings (l) shaft sleeves (m) pins (n) common hardware SNL APPI G742 (tank truck). FSN 2590-912-3879. No clearance required to obtain APPI. USATAC.

APPI No. AT-81. Shaft Assembly, propeller, front axle. The Ord 7351101 shaft assembly is a component of vehicle power train and is used to transmit power from the power take-off to front axle. This shaft assembly consists of following component: (a) steel tube (b) spline shafts (c) universal joints (d) mounting flanges (e) oil seals (f) lubrication fittings (g) common hardware SNL APP G741. FSN 2520-735-101. No clearance required to obtain API. USATAC.

APPI No. AT-82. Armature, Generator Assembly. 24 Volts. This Ord 10950809 armature is the rotating member of the generator assembly and a major component of the vehicle electrical generating system. This armature assembly consists of the following components: (a) laminated iron core (b) copper coil windings (c) copper commutator (d) insulation (e) steel shaft. SNL APP G742, G293, G749, G792, G7838 (autolite and prestolite generators). FSN 2920-03-1137. No clearance required to obtain APPI.

APPI No. AT-83. Tire pneumatic, 11:00 X 20, 2 Ply NDCC, Nylon Truck and Bus. The ORD 15110 pneumatic tire is a major component on the traction system for a wheeled vehicle. This tire assembly has the following basic characteristics: (a) ply rating—12 (b) type classification—TRC and (c) Tread type—NDCC (d) cord material—nylon (e) max rated load—5150 lbs. (f) inflation pressure—35 PSI (g) APP width 12.6 in (h) APP dia—44.5 in specification MIL-T-46729A SNL APP—Multiple. SN 2610-262-8653. No clearance required to obtain APPI. USATAC.

APPI No. AT-84. Tire pneumatic, 7:00 X 16. Ply NDCC, nylon, lt truck. The ORD 7342996 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly is the following basic characteristics: (a) ply rating (b) type classification—lt truck (c) tread type—

NDCC (d) cord material—nylon (e) max rated load—1200 lbs (f) inflation pressure—50 PSI (g) APP width—7.9 in (h) APP dia—31.5 in Specification MIL-T-46729A. SNL APP—Multiple. FSN 2610-678. 1363. No clearance required to obtain APP. —USA-TAC.

CANCELLED

APPI No. WE-64. Plate assembly, Back, P/N 779361. A small machine gun component consisting of a welded assembly. Parts include a carbon steel stamping and alloy steel forging or precision casting. Heat treatment and phosphate surface finished are required. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-65. Breech lock Assembly, P/N 11013422. An assembly for a machine gun. The main component is a breech lock machined from alloy steel and heat treated. The assembly is to be proof fired followed by magnetic particle inspection. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-66. Feed slide assembly for machine gun, PN 7793579. The main parts are alloy steel forgings, requiring heat treatment and phosphate surface coating. No clearance required to obtain APPI. **USAWECOM.**

APPI No. WE-67. Feed slide track assembly for machine gun, P/N 7793610. The main parts are alloy steel forgings, requiring heat treatment and phosphate surface coating. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-68, Barrel jacket for machine gun, P/N 11013400. This consists primarily of two machined alloy steel forgings brazed into an alloy steel tube which has been formed and pierced. No clearance required to obtain APPI. USAWECOM.

APP No. WE-69. Barrel assembly for machine gun, P/N 7791874. The barrel is machined from an alloy steel forging with a chrome-plated bore, and is fitted with a chrome-cobalt liner. Selective assembly with shrink fits is required. Phosphate surface coating, proof firing, and magnetic particle inspection are also specified. No clearance required to obtain APPL. USAWECOM.

APPI No. WE-70. Extension assembly, barrel for machine gun, P/N 779.897. The largest part in this assembly is the extension which requires substantial machining from an alloy steel forging and requires heat treatment, the extension is fitted with a hammer, sear, springs and other parts to make the assembly, proof firing and magnetic particle inspection is required. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-71. Bearing, barrel, front machine gun, P/N 11013349. The two parts of the bearing are machined from medium carbon alloy steel bar stock; and copper brazed in assembly. Heat treating and chromium plating is required. No clearance required to obtain APPI. USAWECOM,

APPI No. WE-72. Barrel, grenade launcher, P/N 11686529. The barrel is to be machined from alloy steel forgings, rolling of the barrel is required as is heat treatment, chromium plating and phosphate surface finish. Proof firing and magnetic particle inspection are part of the specifications. No clearance required to obtain APPI, USAWECOM.

APPI No. WE-73. Bolt, breach for machine gun, P/N 7791384. The major components of this assembly are machined from alloy steel forgings requiring heat treatment and chromium plating. Proof firing and magnetic particle inspection of the breach bolt is required. No clearance required to obtain APPI, USAWECOM.

APPI No. WE-74. Hand, borer for rifles, P/N 546000. This component can be made from carbon steel parts, brazed and welded at assembly or optionally from precision steel castings. No clearance required to obtain APPI. USAWECOM.

APPI NO. WE-75. Charger, bolt, cal. 50 machine
 gun, M10, P/N 7267989. This assembly is composed
 of a variety of parts made from formed, carbon
 steel forgings, aluminum steel stampings, alloy steel
 forgings, aluminum alloy die castings, steel tubing
 and etc. Some welding of sub-assemblies is required,
 as is heat treating and phosphate surface finishing
 on some parts; over fifty parts are in this assembly.
 No clearance required to obtain APPI, USA-
 ECONOM.

APPI No. WE-76. Extension sub-assembly, barrel, machine gun, P/N7791371. The main component of this sub-assembly is the extension machined from alloy steel forging. This part is to be heat treated, chromium plated, phosphate surface finish, proof fired and magnetic particle inspected. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-77. Cylinder assembly, actuating,
armament sub-system, P/N 7791968. This is a

complex and closely fitted air operated piston and cylinder assembly to provide thrust. Accurate machining and grinding is required of the individual parts. The assembly is considered difficult to make. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-78: This assembly for machine gun, P/N 7162303, consists of a steel plunger, operating springs held in a steel housing, and a hydraulic fluid. Precision grinding is required. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-79: Hider, flash, Cal .30, M7, 1/for machine gun, P/N 7162303. This part is to be made from carbon steel or from pearlite malleable iron casting. Chromium plating phosphate surface finishing is required. No clearance required for obtaining APPI. USAWECOM.

APPI No. WE-80: Rod assembly, operating, for rifle, P/N 7790722. This assembly consists essentially of a tube made from carbon steel tubing, heat treated and bent, and of a handle machined from alloy steel, heat treated and phosphate surface finished; and of a stainless steel piston resistance welded into one end of the tube. No clearance required to obtain APPI. USAWECOM.

APPI No. WE-81: Barrel with flash suppressor, for machine gun, P/N 11686344, the barrel is machined from an alloy steel, heat treated, electro-polished, phosphate finished and chrome plated. The suppressor is machined from a steel precision ground and inspected. Proof firing is required. Particle inspection is required. No clearance required to obtain APPI. USAWECOM.

APPI No. ME-31 R1 REVISION: Generator Set. Description: Generator set, gasoline engine driven, 3.0 KW, direct current, air cooled portable, tubular frame, skid mounted, self-excited, model DC-3.0-MD1 28. The engine will be a government furnished military design engine, model 4A032, FSN 2805-776-0483. Manually cranked by rope. Overall dimensions: 35 inches long, 25 inches wide and 25 inches high. Net dry weight 280 pounds. Operating (rated) speed for the set shall be 3,600 rpm. Set shall start and operate at ambient temperatures from minus 65 degrees F to plus 125 degree temperatures. In accordance with MIL-G-52191; FSN 6115-017-8239. No clearance required to obtain APPI.—USAMEC.

APPI No. ME-37 R1 REVISION: Crane. Description: Crane, wheel mounted, 5 ton, diesel engine driven, hydraulic, pneumatic tired, air transportable. The crane shall consist essentially of a 4-wheel drive; 4-wheel steer; pneumatic tired; diesel engine driven carrier with front end mounted, hydraulically operated dozer blade and rear end pintle hook. Carrier shall be a heavy framed, two axle supported, rubber tired vehicle having the general characteristics of an off highway type tractor for mounting a revolving crane superstructure and appropriate front end dozer. Carrier shall be equipped with a center mounted, full revolving boom with a telescoping boom, including a manual extension, hydraulically operated cable drum, hydraulic system, and operator's station with complete operating controls. With 24 foot rated boom length and 10 foot rated boom radius. Crane shall be adaptable to and operate as a 3 ton capacity hydraulically operated clamshell crane equipped with basic boom and 4-wheel drive. Negotiate 15 percent side slope. Crane shall operate on level roads at speeds up to 15 mph. Crane shall perform in any ambient temperature from minus 20 degrees F to minus 25 degrees F. Crane shall be processed to have the inherent ability of fording fresh or salt water to a depth of 1 foot above the top of the transmission without damage to crane or carrier. Lifting and tie-down attachments shall be provided. Equipped with a 4 wheel, power service brake system capable of safety stopping, holding, and controlling movements, including submersion in water, and with an emergency parking brake. A 24 volt, waterproof, electrical system for service and blackout night travel, lighting of the work areas at night, slave starting the engines of other vehicles, maintaining charge in the batteries, and starting the engine. Hydraulic powered outriggers shall be provided. The power train shall consist of a diesel engine located at the rear of the carrier delivering power to a torque converter, clutch, transmission units, and drive axles. The diesel engine shall be an industrial type conforming to MIL-E-11276. Engine shall be provided with a solenoid actuated electric starting motor. The front wheels shall be steered through worm and sector, ball nut, or cam and lever; shall be hydraulically assisted; and the rear wheel steering shall be fully hydraulic. The gross vehicle weight in operable condition and fully serviced shall not exceed 29,000 pounds. The safety characteristics shall eliminate hazards to personnel and to property. These cranes are intended for the following uses: Portable bridge emplacement and removal. Construction work as a crane or clamshell. Light dozer work. Cargo handling. Missile handling (highly maneuverable and precise control). Prime mover-tracked vehicles. In accordance with MIL-C-52220; FSN 3810-828-4457. No clearance required.—USAMEC.

APPI No. ME-39R1 REVISION: Air Conditioner. Description: Air conditioner, 38,000 BTU/HR, base mounted, self-contained, multipackaged, lightweight, air cooled, air transportable. Shall operate automatically on the cooling cycle and either manually or automatically on the heating cycle. Shall be connected for operation on 208 volt or 416 volt, 3 phase, 400 cycle, 4 wire power, and shall be furnished with a compressor motor of the same characteristics. The weight of the air conditioner including the remote control panel and charged with refrigerant and oil shall not be more than 365 pounds. The refrigeration system shall be of the vapor cycle type employing dichlorodifluoromethane conforming to specification MIL-D-33333, type 12 and shall be furnished with a full charge in the system. Cabinet shall be made of aluminum, enamel finish. Equipped with a 24 volt electrical system and air cooled condenser fan, compressor 8.4 HP, AC, 416 volts, 400 cps, 3 phase; one used for condenser fan, 3.02 HP, AC, 208/416 volts, 400 cps, 3 phase; one used for evaporator fan, 0.89 HP, AC, 208/416 volts, 400 cps, 3 phase. Nominal cooling capacity 38,000 BTU per hour with an airflow of 1300 CFM rated capacity. Nominal heating capacity 35,000 BTU per hour with airflow of 1300 CFM. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans, trucks, trailers or shelters. Air conditioners may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52195; FSN 4120-791-9459. No clearance required to obtain APPI. USAMEC.

APPI No. ME-40R1 REVISION: Detecting Set. Description: Air conditioner, 18,000 BTU/HR, base mounted, self-contained, compact, lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor-motor assembly shall be the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. The motors shall operate on 208 volt, 3 phase, 400 cycle electric power. The motor for the compressor shall be a 4 HP, AC, 208 volt, 400 cps, 3 phase; for the condenser fan, 3.02 HP, AC, 208/416 volts, 400 cps, 3 phase. Nominal cooling capacity 18,000 BTU/HR with an airflow of 1200 CFM rated capacity; nominal heating capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum, enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 pounds. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344; FSN 4120-959-4453. No clearance required.—USAMEC.

APPI No. ME-45R1 REVISION: Air Conditioner. Description: Air conditioner, 18,000 BTU/HR, base mounted, self-contained, compact, lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor-motor assembly shall be the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. The motors shall operate on 208 volt, 3 phase, 400 cycle electric power. The motor for the compressor shall be a 4 HP, AC, 208 volt, 400 cps, 3 phase; for the condenser fan, 3.02 HP, AC, 208/416 volts, 400 cps, 3 phase. Nominal cooling capacity 18,000 BTU/HR with an airflow of 1200 CFM rated capacity; nominal heating capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum, enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 pounds. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344; FSN 4120-959-4453. No clearance required.—USAMEC.

APPI No. ME-46R1 REVISION: Loader. Description: Loader, scoop type, pneumatic tired, 2-1/2 cubic yard, diesel engine driven. Equipped with a 2-1/2 cu. yd. multipurpose bucket hydraulically operated, vertical lift, front dump type and other attachments when specified. Four wheels, 4-drive wheels, 2 steerable wheels. An industrial type diesel engine conforming to MIL-E-11276. Shall be furnished with a torque converter and transmission. Transmission shall be hydraulically actuated, friction clutch control, constant mesh, gear type providing not less than three forward speeds and not less than three reverse speeds. Power train shall consist of drive shaft, differential and planetary axles, incorporating a manually operated mechanism which will disengage the power from one axle for high speed travel. Shall withstand without damage, the usage encountered in military operations, such as transportation by truck and trailer over unimproved terrain, emergency towing by another vehicle and operation under all types of weather conditions, capable of convoy operation at an average speed of not less than 20 MPH, and fording fresh and salt water to a depth of 36 inches without damage or leakage of water into fuel, hydraulic, and lubricant reservoirs and housings containing lubricants. Tubeless type tires with a thread suitable for load-carrying operation. Brakes shall be provided on all four wheels and foot controlled and unless specified otherwise shall be air actuated. A fully mechanical parking brake shall be provided. Each loader shall be provided with a rear mounted pintle hook. Equipped with a 24 volt electrical system including the following components: headlights, tail lights, blackout headlight, blackout spotlight, slave receptacle, turn signals. Equipped with lighting and tie-down attachments and a tool box. In accordance with MIL-L-52385; FSN 3805-752-9408. No clearance required to obtain APPI. USAMEC.

APPI No. ME-47R1 REVISION: Tractor. Description: Tractor, full tracked, low speed, diesel engine driven, medium drawbar pull with hydraulic scraper controls with oscillating tracks. The tractor

shall mount and operate the following attachments in the combination listed: Dozer and drawbar; dozer, drawbar, and cable control unit; dozer, drawbar and winch; dozer and ripper. Capable of towing and operating a 4 wheel, 18 cu. yd. hydraulic or cable operated scraper. Shall start and operate in any ambient temperature from minus 25 degrees F to plus 125 degrees F. The diesel engine, including full flow lubricating oil fillers, a 40 ampere battery charging generator, and an electric starting system for auxiliary starting engine (when furnished) shall conform to MIL-E-11276. A power train consisting of a torque converter, a transmission, two individually controlled, power assisted or power operated steering devices, gear type final drive units and connecting components shall be furnished. Steering devices shall transmit the full power of the engine to either track. Brakes shall be provided which lock both tracks simultaneously or either track individually to permit pivot turning. Final drive units shall be enclosed in dust proof housings. A splined shaft to operate a rear mounted winch and to operate a rear mounted, two drum, cable control unit shall be provided. Transmission shall be the full torque, power shift type in combination with a torque converter, shall provide not less than two forward and two reverse gear ratios. A push start pump shall be furnished when tractor is not equipped with an auxiliary gasoline starting engine. Tractor shall be equipped with a 24 volt electrical system. Sealed beam headlights and floodlights. Tractor shall perform the following operations: Negotiate 20 percent longitudinal slopes with the 18 cu. yd. struck capacity, 4 wheel scraper, heaped loaded to a gross weight of 90,000 pounds. Load, haul, and dump an average of 200 cu. yds. (bank yardage) of soil per hour when used with the 4 wheel, 18 cu. yd. scraper with a haul and return of not less than 500 ft. Dig and fill not less than 12 pits, 100 by 50 by 4 feet in undisturbed soil in 130 hours. Tow and self load the 18 cu. yd., 4 wheel scraper to struck capacity in not more than 90 seconds. Tractor and attachments shall withstand the usage encountered in military operations such as operation over unimproved terrain, towing by another vehicle and operation in all types of weather. Shall perform prime mover, pusher, dozer, ripper, winch and scraper operations without breakage or permanent deformation. Shall start and operate after fording fresh and salt water to any depth up to and including 30 inches without damage or leakage of water into reservoirs containing lubricants. Shall withstand the impact forces encountered in air and rail shipments without damage. When equipped with the winch (with cable) the weight of the tractor with all hydraulic, lubricating, and cooling systems filled to capacity shall not be more than 50,000 pounds. Shall be provided with lifting and tie-down attachments and a tool box. The tractor is intended for use as a prime mover for towing 4-wheel scrapers and as a bulldozer in earthmoving operations. In accordance with MIL-T-52270; FSN 2410-965-5898. No clearance required. USAMEC.

APPI No. ME-99: Generator Set. Description: Generator set, diesel engine, 60 KW, alternating current, liquid cooled, portable, skid mounted. Set shall consist of a liquid cooled diesel engine connected by a flexible coupling to a 60 KW, 0.8 power factor generator; a static exciter; a static voltage regulator; fuel tank; engine starting motor; controls; batteries; battery charging generator and controls; waterization equipment; a weather resistant housing; a rigid skid base; and other devices as required to achieve a complete engine generator set. Set shall be 60 KW, 0.8 power factor, at 60 cps, (and 50 KW, 0.8 power factor, at 50 cps) 3 phase, 4 wire, 240 volts line to neutral and 416 volts line to line (240/416 volts) wye. Set shall be reconnectable for the following voltage ratings: (a) 3 phase, 4 wire, 120 volts line to neutral and 208 volts line to line (120/208 volts) wye. (b) 3 phase, 3 wire, 120 volts line to line delta. The diesel engine shall be an industrial type conforming to MIL-E-11276. There shall be two electric fuel pumps to Standard MS51321 connected in series (hydraulically). Equipped with an electric load sensing governing system. Engine shall include both manual turning for inspection and maintenance and electric cranking for starting. Generator shall be a single bearing, rotating field, self-ventilated synchronous type. Set is intended to supply power for general and special purpose use. Maximum dry weight of set 4,700 pounds, overall dimensions 93 inches long, 36 inches wide and 59 inches high. Fully inclosed housing. In accordance with MIL-G-52146; FSN 6115-752-1653. No clearance required to obtain APPI. USAMEC.

APPI No. ME-100: Generator Set. Description: Generator set, diesel engine, 30 KW, alternating current, liquid cooled, skid mounted, fully inclosed housing, self-excited, electric motor cranked, 60 cycles, 0.8 power factor; 3 phase, 3 wire, 120 volt; 3 phase, 4 wire, 120/208-240/416 volt; convertible to 25 KW, 50 cycles. Precise power. Overall dimensions: 79 inches long, 36 inches wide and 59 inches high; FSN 6115-889-1371. No clearances required APPI. USAMEC.

APPI No. ME-48R1 REVISION. Drill Pneumatic, Drifter, Self-Propelled, Crawler Mounted. Shall consist essentially of a crawler chassis with a pintle attachment for towing an air compressor, air motors, hydraulically operated turret boom, chain feed type drill retainer channel, and pneumatic drill. Shall be provided with lubrication fittings, hoses, controls, crawler brakes or locks, and other necessary items to perform complete and efficient drifter drill operations. The drifter drill employing a carbide tipped bottom drive bit shall drill a 2-1/2 inch diameter hole, 22 inches deep in one minute. Each of the two oscillating crawler tracks shall be driven (forward and reverse) by an air motor with a spring loaded deadman control. Each track shall be provided with brakes or hold devices that will lock tracks in a fixed position immediately upon release of the spring loaded deadman control. The feed channel support boom shall be raised, lowered and rotate hydraulically. Vertical movements of boom shall be not less than 40 degrees above the horizontal and 15 degrees below the horizontal. Rotation of boom shall be not less than 90 degrees to the right and 90 degrees to the left and shall provide for vertical drilling at any position in the 180 degree path, outside of the tracks without repositioning the crawler. The hydraulic control of the boom and feed channel shall be such that the drifter drill shall drill vertical or horizontal holes in any of the above ranges regardless of the position of the tracks. The fabricated steel feed channel shall be flexibly secured to the feed channel support boom and shall retain idler sprockets near its extremities to carry the feed chain and allow a total feed travel of the drifter drill of not less than 11 feet 6 inches. An air motor, attached to the feed channel and operating at 90 psi, shall be provided to operate the chain feed which crowds and retracts the drifter drill at a maximum effort of not less than 1000 pounds. The 4-1/2 inch pneumatic drifter drill shall be of the long stroke hammer type, weighing not less than 160 pounds, designed for wet or dry drilling and to allow air to pass through the unit and the attached drill rod for blowing purposes; shall operate on a rated air pressure of 90 psi and shall be automatically valved to provide not less than 1,500 blows per minute to the chucked drill shank. Fifteen drill shanks shall be furnished with each drifter drill for use with drill rods and carbide insert bottom drive rock bits. A pintle assembly conforming to Standard MS51335 shall be provided to receive the tongue of a 600 cubic foot per minute trailer mounted air compressor. The hydraulic system shall include a pump, hydraulic rams with lock check valves, reservoir, pressure relief valve and all necessary controls. The pump shall be driven by an air motor and shall have sufficient capacity to energize all hydraulically powered components. When specified, the equipment shall be provided with lifting attachments and tiedown devices. This self-propelled crawler mounted drifter drill, when completely equipped for drilling, shall be utilized for horizontal and vertical drilling to define crevice lines, to drill blast holes and to accomplish other miscellaneous drilling jobs. In accordance with MIL-D-2120B, Size B, FSN 3820-585-2225. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-52R1 REVISION. Compressor, Reciprocating, Power Driven, Air, 15 cfm, 175 psi. Shall be of the commercial classification "garage type," air cooled, 2 stage, 2 cylinder, tank mounted reciprocating compressor with an air reservoir, automatic unloader, air cleaner, air hose and power unit. Compressor shall be driven by an air cooled, 4 cycle gasoline engine. Engine, fuel tank, manual cranking system and provisions for connection to an auxiliary fuel supply shall conform to MIL-E-11275. Unless otherwise specified a government furnished Military Design 6 hp engine, Model 4A032, FSN 2805-776-0483 shall be provided. Engine shall be installed in accordance with MIL-STD-1300. The drive shaft consist of matched multiple V-belts and grooved pulleys. Two mufflers for the engine shall be provided by the supplier. Engine shall be equipped with a clutch. Compressor and power unit shall be mounted on a base attached to the air receiver tank. The base for mounting the power unit shall have a means for belt adjustment. Air receiver tank shall be of the horizontal type and constructed in accordance with the ASME Boiler and Pressure Vessel Code, tank capacity not less than 80 gallons. Fittings on tank shall include a spring loaded type pressure relief valve, a globe discharge valve, a drain cock of the needle seat packless type, and a 0-psig to not less than 250 psig pressure gage having psi or smaller increments. Compressor shall have an adjustable, pressure actuated, mechanical control to automatically stop compression of air and reduce engine speed to an rpm between 1,000 rpm and 1600 rpm when 185 psig is reached. When the tank pressure has dropped to 160 psig plus or minus 10 psi, the control shall automatically accelerate the engine and start compression. An automatic device shall be provided to prevent engine from starting against either tank pressure or compression in the compressor cylinders. Compressors

are intended for use as a source of compressed air in the normal operations conducted at filling stations and vehicle maintenance shops. In accordance with MIL-C-13874, Type 1, Class 1, style 2, FSN 4310-542-4566. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-53R1 REVISION. Generator Set, Diesel Engine Driven, 100 KW, Alternating Current, Liquid Cooled, Portable, Skid Mounted, Multipurpose. The generator set shall consist of a liquid cooled diesel engine directly connected by a flexible coupling to a 100 kw, 0.8 pf generator. An excitation system, voltage regulator, fuel tank, engine starting motor, controls, batteries, battery charging generator and controls, governor, winterization equipment, a weather resistant housing, a rigid skid base and other equipment as required to achieve a complete engine-generator set. Set shall be 100 kw, 0.8 pf lagging, at 60 cps, and 83.3 kw, 0.8 pf lagging, at 50 cps, 3 phase 4 wire, 240 volts line to neutral and 416 volts line to line, (240/416 volts) wye. Set shall be reconnectable for 3 phase, 4 wire, 120 volts line to neutral and 208 volts line to line (120/208 volts) wye. Operating speed 1,800 rpm for 60 cycle operation and 1500 rpm for 50 cycle operation. An industrial type diesel engine conforming to MIL-E-11276 shall be provided with a fuel system including piping, valves, filters, fuel tank, day tank, two electric fuel transfer pumps, preheat pump, a muffler, exhaust pipe, tailpipe, fittings, and other required equipment. Engine shall include both manual turning for inspection and maintenance and a 24 volt electric cranking system for starting. Set shall be equipped with an electric load sensing governing system with the necessary equipment for speed error sensing, and with an adjustable frequency regulation (droop) control on the control panel. Generator shall be a single bearing, rotating field, self ventilated synchronous type. A voltage reconnection system shall be provided for reconnecting the phase winding to give all the specified terminal voltages. Excitation system shall consist of an exciter and voltage regulator of the static type. The control panel shall consist of a generator control cabinet and a engine and winterization control panel. Set shall start and operate at ambient temperatures from a minus 65 degrees F to plus 125 degrees F, with 3 inches of rain impinging on the set at angles from vertical to 15 degrees from the vertical, with the base of the set in planes from level to 15 degrees from level, and at 8,000 feet above sea level at an ambient temperature of 95 degrees F. The generator, excitation system, governing system, generator, control cabinet and tool box shall be dripproof. Housing shall be constructed of steel or aluminum alloy, fully enclose the sides, top and ends of the set, exclude wind driven rain, snow, and sand from the interior, be of bolted construction, have drip channels, be removable, be reinforced, provide a fully protected compartment for storage of manuals, etc. Skid base shall be constructed of steel or of aluminum alloy and shall have towing holes and two retractable towing eyes. Winterization system, when required, shall consist of a fuel supply system, diesel fuel fired coolant heater, coolant circulating pump, distribution system and all necessary controls shall be provided. Set shall withstand, without damage, rough handling normally encountered during rail, truck or trailer transportation. The dry maximum weight of the set shall be not more than 7000 pounds. Overall dimensions 116 inch max length, 40 inch max width, and 65 inch max height. Each set shall be provided with one lifting attachment located at the top of the set. Sets are intended to supply power for general and special purpose use. In accordance with MIL-G-52461, FSN 6115-752-1588. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-55R1 REVISION. Generator Set, Gasoline Engine Driven, 3 KW, Alternating Current, Air Cooled, Portable, Tubular Frame, Skid-Shock Mounted. Set is rated 3 KW, 0.8 pf lagging, and shall be connectable for the following voltage ratings: 3 phase, 4 wire, 120 volt line to neutral and 208 volt line to line (108/208); 3 phase, 3 wire, 120 volt line to line; Single phase, 2 wire 120 volts; Single phase, 2 wire, 240 volts. Self-excited. The military design engine, model 4A032, FSN 2805-776-0483, conforming to MIL-E-11275, will be furnished by the government. Manually cranked by rope. Set shall start and operate at ambient temperatures from minus 65 degrees F to plus 125 degrees F. Operating speed for set shall be 3,428 rpm. Set shall not be damaged when subjected to rough handling. The net dry weight of set shall be 285 pounds. The overall dimensions shall be 35 inch long, 24 inch wide and 25 inch high. Set is intended to supply power for general purpose use. In accordance with MIL-G-52367, Type 11, and DL 13213E4098, FSN 6115-017-8238. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-57R1 REVISION. Outboard Motor, Gasoline, with carrying case. Each outboard motor shall consist of a gasoline engine, mounting bracket, forward and reverse reduction gears, propeller and

separate fuel tank. The net brake horsepower of the engine, complete with all accessories, shall not be less than 25 or more than 40 continuous horsepower at the manufacturers max. rated speed. The engine speed control shall be located in the twist-grip, on the steering handle, allowing full engine speed for both forward and reverse operation. The carburetor shall be of the Venturi type with fixed or adjustable low speed and high speed jets. Six to seven gallon capacity of fuel tank, with a fuel gage and either a manual discharge pump or a squeeze bulb. A high-tension magneto ignition system. Engine cranking shall be accomplished by an automatic rewind starter rope. An efficient under-water exhaust system shall be provided. Gear shifting lever shall be located on steering handle. Steering shall be through an integral tiller type handle that shall change direction of the propeller thrust through a total arc of not less than 120 degrees. A method shall be provided for connecting two motors to permit steering in unison when the motors are mounted with a 25-1/2 inch center to center horizontal separation. The propeller shall have not less than three blades. A repair kit, repair parts and maintenance tools shall be furnished. Motor leg shall be streamlined to prevent excessive drag and to prevent undesirable hydraulic characteristics such as water entering boat over the transom. Each motor shall be furnished with a chest constructed in accordance with MIL-C-12044, accommodating the completely assembled motor, fuel tank, tiller connecting device, manuals, repair kit, repair parts, maintenance tools, and conversion kit in as compact a manner as practicable. The maximum unit weight, not including fuel tank, shall not exceed 160 pounds. The outboard motors are intended for use in propelling floats, pontoons, rafts, assault boats, and other floating or stream crossing equipment in fresh water and salt water service. In accordance with MIL-O-11585, type 11, Class B, FSN 2805-132-9079. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-58R1 REVISION. Crushing and Screening Plant, Two Unit, Gasoline Engine Driven, Semitrailer Mounted, 35 Ton per hour capacity. The crushing and screening plant shall consist of two separate units, the primary unit and the secondary unit. Each unit shall be mobile, self-contained, and equipped with a gasoline engine as an integral part of the unit. Each unit shall be mounted on a semitrailer chassis that will permit towing either as semitrailer or as a full trailer when used with a dolly converter. Each gasoline engine, components and accessories shall be in accordance with MIL-E-11275, group 11. Equipped with a manual and electric starting system. The primary unit shall consist of a chassis upon which shall be mounted a reciprocating plate feeder with loading hopper and grizzly bars, a bypass hopper, a 15 by 24 inch jaw crusher, a primary delivery conveyor for moving the material from the jaw crusher to the secondary unit, a gasoline engine, drives, guards, operator's platform, and ladder. The crushed shall be of the jaw type with overhead eccentric action and shall crush materials ranging in size from a cross section of 13 by 22 inches down to the size of the minimum jaw setting. The secondary unit shall consist of a chassis upon which shall be mounted a 24 inch diameter by 16 inch face roll crusher, a vibrator screen, a feed conveyor for moving material from the delivery conveyor on the primary unit to the screen on the secondary unit, a return feed system for conveying crushed material to the screen for resizing, a fines delivery conveyor for conveying material into trucks or stock piling, a delivery conveyor for conveying the finished material into trucks, a gasoline engine, drives, guards, operator's platform, and ladder. The roll crusher shall consist of two rolls, with detachable one piece roll shells, one fine corrugated and one smooth, 24 inches outside diameter, 2 inches thick, and with a face of 16 inches. A 40,000 pound towing pintle assembly conforming to MS51118 shall be mounted on the rear of the semitrailer to provide a towing connection for the dolly converter when unit is being towed by a truck tractor. Unit shall be equipped with a waterproof, 24 volt, vehicular electrical system for service and black out illumination during travel. A front dolly converter shall be furnished with each semitrailer mounted unit, to permit coupling the dolly to the semitrailer by backing, a heavy duty lower fifth wheel shall be furnished. A lunette conforming to MS51337 shall be installed in a housing integral with the towbar frame. Towbar of dolly converter shall be provided with an adjustable folding, landing leg to permit coupling and uncoupling by one man. Each unit shall operate over smooth hard surfaced primary highways at speeds up to 20 mph, over unimproved roads and open, rolling, and hilly cross-country terrain up to 10 mph. Units shall be sectionalized to permit air and rail transportation. Each unit and each sectionalized component shall be provided with lifting and tiedown attachments. The crushing and screening plant is intended for use in the production of aggregate for roadways, airstrips, parking aprons, and similar projects. In accordance with MIL-C-52460, FSN 3820-247-9914. No security clearance required to obtain APPI. USAMEC.

to .078 at mouth; steel strip is perforated with 1160 holes .312 inch in diameter and welded to form tube which is copper brazed to head, 5.138 inch diameter x .93 inch long, .8074 inch diameter primer hole. Special bar steel heat treatment and stress relief required. Assembly has baked varnish finish after phosphatizing. Case considered difficult to produce. No cleaning required to obtain APPI. APSA-USAMUCOM.

APPI No. AP-80. Simulator Projectile Air Burst M74A1 loaded. Consists of 4 assys and 17 components. Charge case is 2.84" long x 1.445" diameter x 1.37" I. D. top wall .067" thick neck .39" OD x .243 long threaded. Closing disc formed shape of aluminum alloy sheet. Sealing disc chipboard. Charge is black powder and aluminum powder. Fuze assy consists of housing of aluminum alloy rod disc upper, fuze of aluminum alloy sheet delay charges of 1, component and primer, 1.475" I.D. flanged base. Primer, percussion M39A1 assy. Primer mixture is potassium chlorate sulphocyanate int etc. Gas check washer and charge load of black powder. Considered difficult to produce to applicable specifications. No clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-81. Flare surface trip M49A1 assy loaded. This item consists of several small components plus bolts springs and stampings made of steel. The main assembly consists of a cover loading assembly which is 1.6" diameter x .71" high machined from a zinc die casting. The loading assy provides for 3 illum pellets and 1 ignition pellet with trigger assy and striker assy to initiate. Mfg firms bidding on this item should be familiar with pyrotechnic mfg process and ordnance standards and specifications. No security clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-82. Signal illum ground green star parachute M19A2 is procured loaded approx 10.4" x 1.9" in diameter and weighs approx 1 pound. The item consists of 6 major parts (a) body aluminum drawn seamless tube 5" long x 1.63" in diameter x .066" thickness. (b) Fuze housing alum alloy bar 1.10" long x 1.625" in diameter threaded on one end and loaded with potassium nitrate black powder and propellant. (c) tube stabilizer cold drawn steel tubing annealed r.795" long x .866 I.D. Flared to 1.20" I.D. and treaded on one end. (d) illum assy rolled boxboard sheet with detrin adhesive and is 1.40" in diameter by 1.09" long and a reinforcing cover of alum alloy steel. The illum consists of barium nitrate coated magnesium copper powder hexachlor benzene and linseed oil. The priming charge consists of black powder and quickmatch. (e) Parachute assy consists of 18 1/2" diameter nylon parachute with nylon cord leadere 29 ft in length. The packaging is made in fiber containers which are shipped in wooden boxes. Mfg firms bidding on this item will require pyrotechnic facilities and a technical staff familiar with pyrotechnic specifications and manufacturing processes. No security clearance required to receive this APPI. AP-USA-MUCOM.

APPI No. AP-83. Sig illum cluster M125A1 consists of illum assy of 5 star candles and candle initiating assy all inclosed in aluminum case. Illum composition consists of magnesium barium nitrate polyvinyl chloride and binder mixture. Body is aluminum. Quickmatch is type II class a specs MIL-Q-00378. Delay assy is 1.19" O.D x .473" thick propellant is black powder. Tube casing is steel. Tail assy consists of tail vane and rib assy plus upper and lower rings. Vanes are strip steel welded to tubing and folded against tubing when in case. They spring out when ejected. This item is considered fairly difficult to produce. It is procured loaded. No security clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-84. Signal Illuminating Ground Parachute Red Star M126A1. No security clearance required to receive APP. AP-USA-MUCOM.

APPI No. AP-85. Signal illum ground parachute white star M127A1. Except for chemicals which produce color both signals are essentially the same. The chemicals indicated below are for the M126A1. Consists of illum assy para assy and candle initiating assy all inclosed in aluminum body 1.442" O.D. x 4.906 long x .018" thick. Illum assy consists of magnesium strontium nitrate potassium perchlorate polyvinyl chloride and binder. Illum case is attached to parachute by .078" asbestos cord. Parachute is 24 1/2" diameter and made from silk. Quickmatch type II class a 3 1/4" long ignites illum. Expelling charge is black powder and is initiated by delay composition of potassium nitrate antimony sulfide black powder sulfur and detrin. Delay assy is 1.19" O.D. x .473" thick. Rocket motor consists of 3 grain propellant assy inclosed in metal tube casing. Tail assy consists of tail vane and rib assy upper and lower tail rings. Vanes fold flat against motor case and spring out when ejected. Firing pin is in cap which fits overs one end of rocket barrel. Item is fairly difficult to produce to applicable specifications. It is procured loaded. No security clearance required to receive APP. AP-USA-MUCOM.

APPI No. AP-86. Signal illum ground white star cluster M159A1 Consists of illum assy of 5 star candles and candle initiating assy all inclosed in aluminum case. Illuminant composition consists of magnesium barium nitrate polyvinyl chloride and binder mixture. Body is aluminum. Quickmatch is type II class a Spec MIL-Q-00378. Delay assy is 1.19" O.D. x .473" thick. Propellant is black powder. Tube casing is steel. Tail assy consists of tail vane and rib assy plus upper and lower rings. Vanes are strip steel welded to tubing and folded against tubing when in case. They spring out when ejected. This item is procured loaded. No security clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-87. Sig illum Aircraft Star Red. No security clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AP-88. Sig illum Aircraft single star green AN-M45A2. Except for chems which produce color the AN-M431-2 AN-M44A2 and AN-M45A2 signals are essentially the same. Procured loaded approx 3.85 plus and minus .10 length and diameter of 1.570. The item consists of (A) signal case assy (B) star assy upper (C) star assy lower (D) wad disc assy (E) number of components. A. Single case assy consists of two parts (1) primer percussion M39A1 (2) signal case. The signal case is the shape of a shotgun shell made from al alloy rod or bar 1100-0 spec ASTM B211 or B-221 length 3.38 and diameter 1.568. B. Star assy upper consists of (A) cup material al alloy sheet 1100-0 spec ASTM-B209 length .25" I.D. 1.375 and wall thickness .10. Seven holes are drilled in bottom of cup 6 holes .187 diameter and a center hole .24 diameter (2) disc material al alloy sheet 1100-F114 spec ASTM B209 diameter .350 thickness .0100 with 7 holes identical to those in the cup. 3. Quickmatch type II class B spec JAN Q378 3" long. 4. Charge star weight 1.66 ounces red no 201C spec MIL-P-20334. Star assy lower specification same as B star assy upper. Wad disc assy consists of 1 was cushioning lower material felt sheet wool pressed type I class 16R3 Spec Caf 206 O.D. 1.51". Thickness .375 with a center hole of .68" diameter (2) disc retaining material paper onion skin spec jan-p-157 of 1.54 by .002 thick. The following individual components. top material steel strip ASTM-109 O.D. 1.536 by .135 thickness and maximum width .243 Disc spacer material chipboard plain class II spec uu-c-282 diameter .45" by .064 thickness (3) wad cushioning upper od 1.51"X. No security clearance required to receive APPI. AP-USA-MUCOM.

APPI No. AT-85. Box Assembly, Traverse Gear. The ORL 7739314 box assembly traverse gear is a sub-assembly of traversing gear assembly which traverses a tank turret by either manual or hydraulic power. Assembly is hull mounted in gunners compartment. This sub-assembly consists of following components: (a) differential assembly (b) overload clutch assembly (c) output pinion drive (d) magnetic brake assembly (e) oil pump (f) upper and lower case assembly (g) gaskets (h) seals (i) oil tubes (j) fittings (k) common hardware. SNL APP G292 FSN 2520-621-9567. No clearance required to obtain APPI. USATAC.

APPI No. AT-86. Differential 3/4 Ton. The ORD 7373714 differential with carrier assembly is a component of a front driving axle which allows vehicle wheels to have equalized traction on straightaway, and different rotational speeds during turns. Power is provided through a shaft from power take-off. This assembly consists of following components: (a) housing (b) matched ring and pinion gear (c) side gears (d) spider pinions (e) pinion shafts (f) washers (g) lock nut (h) anti-friction bearing (i) differential case (j) common hardware. SNL APP G741. FSN 2520-737-3714. No clearance required to obtain APPI. USATAC.

APPI No. AT-87. Drive, final with container. The ORD 10936609 final drive is a hull mounted component of power train for a tracked vehicle and provides power from crossdrive transmission to drive sprockets. This drive assembly consists of following components: (a) housing and cover assembly (b) gear shafts (c) drive gears (d) anti-friction bearings (e) seals (f) gaskets (g) spacers (h) common hardware. Skid mounted metal reusable container to be furnished by supplier. SNL APP G296. FSN 2520-964-9203. No clearance required to obtain APPI. USATAC.

APPI No. AT-88. Drive Auxillary. The ORD 109042 auxillary drive is used to drive the generator, hydraulic pump and engine cooling fan in a tracked vehicle. This is a duplex unit, hull mounted and powered by a shaft from the power take-off unit. This drive unit consists of following components: (a) gear housing (b) shaft housing (c) clutch housing (d) filler tube (e) pulley (f) clutch case (g) gear case (h) level gears (i) anti-friction bearing (j) magnetic clutch (k) gaskets (l) seals (m) retractor (n) gear shafts (o) lock nuts (p) common hardware. SNL APP G295. FSN 2520-084-0768. No clearance required to obtain APPI. USATAC.

APPI No. AT-89. Transmission assembly with metal container. The ORD 5703527 transmission is

used to transmit driving power from the engine through selected gear ratios and speeds to driving wheels. This transmission is classed as a conventional synchromesh type with provision to mount a power take-off unit. This transmission assembly consists of following components (a) case (b) cover assembly (c) clutch housing (d) attached parts (e) shift mechanism (f) gear shafts (g) gear (h) anti-friction bearings (i) seals (j) gaskets (k) common hardware. Metal reusable container for transmission to be furnished by supplier. SNL APP G144. FSN 2520-973-4086. No clearance required to obtain APPI. USATAC.

APPI No. AT-90. Pump fuel injection. The ORD 10865193 fuel injection pump is a component of the fuel system for a tracked vehicle, and furnishes fuel through a metered, timed injection cycle to a 12 cylinder air cooled gasoline engine. This injection pump consists of following components: (a) idle adjustment assembly (b) wobble plate pump assembly (c) distributor block assembly (d) metering valve (e) metering head assembly (f) gasket set (g) common hardware. SNL APP G298 (G274). FSN 2910-714-8653. No clearance required to obtain APPI. USATAC.

APPI No. AT-91. Motor, windshield wiper, pneumatic. The ORD 7539696 windshield wiper motor is a major component of the windshield wiper group for a wheeled vehicle. This motor assembly consists of following component: (a) cylinder assembly (b) head assembly (c) piston (d) shaft assembly (e) cups (f) springs (g) internal head assembly (h) end caps (i) stop assembly (j) cover assembly (k) mounting plate (l) common hardware. SNL APP G742. FSN 2540-391-4322. No clearance required to obtain APPI. USATAC.

APPI No. AT-92. Tire pneumatic 9:00 x 20, 8 ply NDCC nylon truck and bus. The ORD 515090 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly has the following basic characteristics: (a) ply rating -8 (b) type classification - trk and bus (c) tread type - NDCC (d) cord material - nylon (e) max rated load - 3240 lbs (f) inflation pressure 75 PSI (g) APP width 10.9 (h) APP dia 41.1 in. Specification MIL-T-46729A. SNL APP-Multiple. FSN 26100262-8677. No clearance required to obtain APPI. USA-TAC.

APPI No. AV-95R-1. Cancellation of APPI. Indicator, published previously as APPI No. AV-95R-1, indicator, attitude, synopsized in 5 July 1966 issue of Commerce Business Daily, is hereby cancelled by USAVCOM.

APPI No. AV-111. Indicator, turn and slip. Integral stabilization, pointer. 1. Used to show pitch of Acft., fluorescent finish, w/o instrument lamp, 28V DC, electrical connection, 1, 3-PIN contacts, and 10066-10SL-3P. O/A dim., 5.235 in. dia., 2.375 in. W. and H., Bezel Mid, MIL-1-7627, Type MD-1A. FSN 6610-557-0910. This item is on OPL No. 7627-3. Interested concerns should contact Navy Bureau of Weapons to have their product tested and qualified. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-112. Generator assembly, engine driven, 30 Volt, DC. Type MA-3. Appl., multiple aircraft. FSN 2925-628-8179. This item is on OPL No. 6162-13. Interested concerns should contact Navy Bureau of Weapons, Washington, D. C. to have their product tested and qualified. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-113. Indicator, indicated air speed, dial, 1 scale, air speed, 0 to 250 knots range, 20 knots graduated increments, finish of graduations, fluorescent numerals and lined increments, pointer data 1, fluorescent finish w/o instrument lamp, O/A dim, 2-1/8 in. deep norm 1/8 in., 2-3/4 in. dia., panel mid., Gov't spec data, MIL-1-5721A, MS 28021-1. FSN 6610-726-0247. This is a OPL item. Interested concerns should contact Wright Patterson AFB to have their product tested and approved. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-114. Generator, tachometer. Electrical output, accuracy and operating speed per MIL-G-5413, 4 Rotor poles, dim 4-3/8 in. lg., excl shaft, 2-3/8 in. W., 3-15/32 in H. shaft extends .562 in. from end of enclosure, end mfg., 4 holes, .281 in. dia, on 1.976 in by 1.976 in. centers, terminal, 1, connector, right angle, sq. shaft, .244 in. across flats, MIL-G-5413, Type 1, AN 5547. FSN 6680-557-0835. This item is on OPL No. 5413-15. Interested concerns should contact Bureau of Naval Weapons to have their product tested and approved. No clearance required to receive APPI. USAVCOM.

APPI No. AV-115. Indicator, electrical tachometer. Panel Mfg., 0 to 4500 RPM O/A Range, 1 Scale RPM, 0 to 45 range of numerical marking, 100 RPM smallest increment, major & minor graduations white, 1 pointer, rotating hand, black W/white tip, marked, 1 pointer, rotating hand, black W/white tip, marked 2, RD Case, O/A dim., 3 in dia., 5 in., max deep, 1 electrical connection, 3 pin insert contacts, MS 33678-14S-7P, operating mechanism, synchrous motor, AC, 1 to 1 speed ratio of generating

APPI No. AV-110. Amplifier, Radio Set AN/PRC-25 for vehicular installation. Provides regulated 13V input voltage to the radio set and amplifies the audio output of the receiver to furnish loudspeaker power levels. In addition, provides electrical servo information to the antenna matching network mounted on the vehicle. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. AV-111. Receiver-Transmitter, Radio RT-246/VRC. A rugged compact FM receiver-transmitter in a watertight case. It may be manually tuned from the front panel to any frequency in the range of 30MC to 75.95MC in 50 KC increments, or automatically tuned from the front panel, or remotely, to any of the ten preset frequencies within the 30MC to 75.95MC tuning range. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. AV-112. Receiver-Transmitter, Radio RT-524/VRC. A rugged compact FM receiver-transmitter in a watertight case. It is tuned manually from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments. An integral loudspeaker, is mounted on a front panel. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. AV-113. Receiver-Transmitter, Radio RT-505C (PRC-25). Receives and transmits from signals in the frequency range of 30 to 75.95 MC. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-93. Radar Set AN/PP-5C. A lightweight, miniaturized, combat surveillance radar utilizing a silent type power supply. This equipment capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line-of-sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-94. Radiometer, IM-174C (PD). Detects and measures Gamma Rays. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-95. Receiver-Radio, R-442/VRC. A rugged, lightweight, compact, FM receiver fitted in a watertight case. The receiver is manually tunable over the frequency range of 30 MC to 75.95 MC, in 50 KC increments covered in two bands. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-96. Receiver-Radio, R-442/VRC. Produces a continuous audio and/or radio frequency voltage, and which is designed for test purposes only. It may provide an output at one or more fixed frequencies or be continuously variable over one or more bands. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-97. Test Set-Telewriter, AN/GGM-1. Provides for the transmission and Analysis of Signal Disturbances, Signal and Noise Techniques and solid state test set for the analysis of Synchronous and Asynchronous signals. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-98. Radio Set AN/PRC-25C. A complete portable radio set for use over the frequency range of 30 to 75.95 mc. This radio set is capable of operating from a 24 volt vehicular system when used with Amplifier Power Supply Group OA-3633C (PRC-25). (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-100. Power Supply, PP-1104C (G). A selenium rectifier element and associated automatic voltage regulator and filter system is utilized and designed to convert conventional 1 AC electric power into low voltage DC to operate 12 and 24 volt signal corps equipment in small signal field maintenance shop. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. AP-4RI reprinted from previous printing in CBD is as follows:

APPI No. AP4 Ammunition item metal fabrication and explosive loaded. Booster M125A1 mpts w/loaded M17 detonator. Approximately 2" diameter by 2" long. Nine components and 6 subassemblies, contains timing components, gear and pinion assembly, escape wheel, pins, rotors, springs, etc. Firm will require competent staff of engineers and tool engineers and ability to produce precision parts and precision assemblies by mass production techniques. Also requires local approval store, handle, load, explosive detonators. Considered extremely difficult item to produce. APSA-USAMUCOM. Secret clearance required.

APPI No. AP-19RI reprinted from previous printing in CBD is as follows:

APPI No. AP-19. Ammunition Item - Fuze, rocket XM423 metal parts with Detonator MK59, model O with primer XM94E1 with booster MPTS, 4.035 inches maximum length by 1.75 inch diameter. Consists of five (5) major components: striker, pin body assembly, material, aluminum, alloy, 2024, temper T351, Rod; firing pin body assembly, material, aluminum alloy; device, safety and arming, consists of 33 metal parts such as gears, pinions, springs and rotors; screw sealing disc, material, aluminum, alloy 2024; housing booster, about 1.115 inches long by varvine outside dimensions, material, carbon steel

APPI No. EL-90. Amplifier-Power Supply Group OA-3633C (G)RC. Adapts Radio Set AN/PRC-25 for vehicular installation. Provides regulated 13V input voltage to the radio set and amplifies the audio output of the receiver to furnish loudspeaker power levels. In addition, provides electrical servo information to the antenna matching network mounted on the vehicle. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. 91. Receiver-Transmitter, Radio RT-246/VRC. A rugged compact FM receiver-transmitter in a watertight case. It may be manually tuned from the front panel to any frequency in the range of 30MC to 75.95MC in 50 KC increments, or automatically tuned from the front panel, or remotely, to any of the ten preset frequencies within the 30MC to 75.95MC tuning range. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-92. Receiver-Transmitter, Radio RT-524/VRC. A rugged compact FM receiver-transmitter in a watertight case. It is tuned manually from the front panel to any frequency in the range of 30 MC to 75.95 MC in 50 KC increments. An integral loudspeaker, is mounted on a front panel. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-93. Receiver-Transmitter, Radio RT-505C (PRC-25). Receives and transmits from signals in the frequency range of 30 to 75.95 MC. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-94. Radar Set AN/PP-5C. A lightweight, miniaturized, combat surveillance radar utilizing a silent type power supply. This equipment capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line-of-sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. 95. Radiometer, IM-174C (PD). Detects and measures Gamma Rays. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. 96. Receiver-Radio, R-442/VRC. A rugged, lightweight, compact, FM receiver fitted in a watertight case. The receiver is manually tunable over the frequency range of 30 MC to 75.95 MC, in 50 KC increments covered in two bands. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-97. Receiver-Radio, R-442/VRC. Produces a continuous audio and/or radio frequency voltage, and which is designed for test purposes only. It may provide an output at one or more fixed frequencies or be continuously variable over one or more bands. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-98. Test Set-Telewriter, AN/GGM-1. Provides for the transmission and Analysis of Signal Disturbances, Signal and Noise Techniques and solid state test set for the analysis of Synchronous and Asynchronous signals. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-99. Radio Set AN/PRC-25C. A complete portable radio set for use over the frequency range of 30 to 75.95 mc. This radio set is capable of operating from a 24 volt vehicular system when used with Amplifier Power Supply Group OA-3633C (PRC-25). (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-100. Power Supply, PP-1104C (G). A selenium rectifier element and associated automatic voltage regulator and filter system is utilized and designed to convert conventional 1 AC electric power into low voltage DC to operate 12 and 24 volt signal corps equipment in small signal field maintenance shop. (No sety clnc req to obtain USAECOM APPIs.)

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APPI No. AP-19RI reprinted from previous printing in CBD is as follows:

APPI No. AP-19. Ammunition Item - Fuze, rocket XM423 metal parts with Detonator MK59, model O with primer XM94E1 with booster MPTS, 4.035 inches maximum length by 1.75 inch diameter. Consists of five (5) major components: striker, pin body assembly, material, aluminum, alloy, 2024, temper T351, Rod; firing pin body assembly, material, aluminum alloy; device, safety and arming, consists of 33 metal parts such as gears, pinions, springs and rotors; screw sealing disc, material, aluminum, alloy 2024; housing booster, about 1.115 inches long by varvine outside dimensions, material, carbon steel

bar, hot-rolled. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool design engineers. Item considered difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-20RI reprinted from previous printing in CBD is as follows:

APPI No. AP-20. Ammunition Item-Fuze, rocket, XM427 metal parts with detonator MK59. Basic description same as AP-19. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-22RI reprinted from previous printing in the CBD is as follows:

APPI No. AP-22. Ammunition Item, Complete Head Assembly for M525/T336E7/ and M527B1 Fuze, Point Detonating, a Timing Device, approx 1.5 inches long by 1.38 inches outside diameter. Consisting of a Movement Assembly Containing a Housing Assembly Composed of Housing and Setback Detent, Material, Brass Rod Spec QQ-B-626; a Firing Pin Assembly, Composed of Firing Pin, Material, Aluminum Alloy Rod, Specs QQ-A-200/3A or QQ-A-225/6A, Bushing Retainer, Lower Bushing, and Top Plate Assembly, Composed of Upper Bushing, Material, Brass Rod, Spec QQ-B-626, a Top Plate, Material Brass Sheet, Spec QQ-B-613, Drive Gear and Stop Pin Assembly, and Striker Assembly. Head Assembly also contains Release and Plunger Springs, Material, Wire, Steel, Spring, Music, Spec QQ-W-470. Manufacturers Bidding on Item will require competent Technical Staff of Engineers, Metallurgists and Tool Designers. Item considered very difficult to manufacture. No clearance required to receive APPI. APSA-MUCOM.

APPI No. AP-60RI reprinted from previous printing in the CBD is as follows:

APPI No. AP-60. Fuze, MT, M565, approximately 2.4" D x 3.726" L procured with detonator and relay loaded, consists of approximately 149 component parts and 76 sub-assemblies; body is 2.40" D x 1.53" L counterbored, threaded, holes and slots, brass, specification MIL-B-13351 or QQ-B-637; ring lock 1.775" I.D. x .27" L with 1 15/16" 24 thread on OD two slots one side, stainless steel 416, QQ-S-763; head 1.61" D x 2.27" L tapered, aluminum 2024-T4, specification QQ-A-200/3 or QQ-A-225/6 or aluminum die casting specification QQ-A-591. Plug closing 1.655" I.D. x .395" L various holes, counterbores, aluminum 2024-T4; housing 1.884" D x 1.625" L x 1.67 counterbore x 1.167 deep various holes, stainless steel 416, QQ-S-763; cap lower 2.185" D tapered aluminum alloy specification ASTM B211 or B221; body 1.74" D x 1.123 L counterbores and precision holes, brass specification MIL-B-13351 or comp 3 half hard QQ-B-637; various small gears, pinions, shafts, screws plates, springs, discs, collars, pins, bushings and "O" rings; sub-assemblies must withstand rigid arm, non-arm, jolt jumble and transportation, humidity and waterproof tests. Dynamic regulation at 6000 RPM and timing error not more than 0.18 PCT maximum from 3 to 100 seconds. Manufacturers will require a highly competent technical staff including metallurgists and tool and design engineers, as well as effective quality assurance system. Very difficult to produce to applicable specifications. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-9RI reprinted from previous printing in the CBD is as follows:

APPI No. AP-9 Rev 1 Loaded item - Cord Detonating Reinforced Plastic Wrap, type 1, PETN core procured loaded, 0.175" max. dia. to 0.235" max. dia. depending on class, textile cover, plastic coating finish, max. weight per 1000 ft. length, min. break strength, detonating velocity, propagation, etc. per spec MIL-C-17124B. Fifty ft. lengths on fiber or chipboard cores longer lengths on commercial spools. Technical staff familiar with handling explosive material required. No clearance required to receive APPI. APSA-USAMUCOM.

APPI No. AP-50RI reprinted from previous printing in the CBD is as follows:

APPI No. AP-50. Simulator, hand grenade M-116A1 is a pyrotechnic device, ignited by the action of fuse lighter M3A1 and is thrown like a hand grenade. It burns for 6 to 10 seconds after ignition, producing a flash and accompanying loud report. The fuse lighter M3A1 is 4.5 inches long by 1.5 inch diameter procured loaded with approximately 1.3 ounces photoflash powder. Major Components: Tube Outer (2 each) 2.25 inches long by .51 inch outside diameter by .065 inch wall thickness, material kraft paper, convolute or spiral wound, sleeve 2 inches long by .42 inch outside diameter by .34 inch inside diameter kraft paper convolute or spiral wound. Tube 2.25 inches long by .34 inch outside diameter material, kraft paper. Disc 1 and disc 2 board binders sheet and cap material, polystyrene. Cup igniter .25 inch diameter by .22 inch length by .014 inch wall thickness, material, gilding metal strips, ferrule (2 each) 5/8 inch long by .26 inch diameter by .008 inch wall thickness. Clip safety formed wire 1.25 inches long. Cord, pull 8 inches long material, nylon. Simulator must withstand a jumble test Specification MIL-STD-351. Sealed cartons of simulators to withstand waterproof test for 4 hours. Firms producing items will be required to maintain effective quality assurance system required by Specification MIL-I-45208. This item is

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of dated October 4, 1966 page 2, No. PSA 4157 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EL-96. Amplifier, Radio Frequency, AM-400. (PRC-25) This consists of amplifier assembly and is designed to be used in conjunction with Radio Set AN/PRC-25 to increase communication range. It may be used with other low-power FM radio sets in the same frequency range for a similar purpose. For portable operation, unit requires a special battery. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-101. Direction Finder Set, AN/TRD-25C. A sensitive shelter mounted direction finding facility used to provide elevation as well as azimuthal data. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-102. Radio Set Control Group AN/GRA-10. Provides duplex telephone operation and two way radio via telephone lines (max. distance two miles between Controls C-2324C (G)GR and C-2324C (G)GR remote push-to-talk operation set by means of a tone transmission C-2324C (G)GR to the Control C-2324C (G)GR received audio (1/2 watt) or external speaker operation. Will work from an internal Battery or external 27.0V dc source. (No sety clnc req to obtain USAECOM APPIs.)

APPI No. EL-103. Oscilloscope, AN/USM-140. A oscilloscope intended for generating and precisely measuring mounted use see AN/PRC-25 (G)GR to obtain USAECOM APPIs.)

considered difficult to produce to required specifications. No clearance required to receive APPI. USAMUCOM-APSA.

APPI No. AP-3R1 reprinted from previous printing in the CBD is as follows:

APPI No. AP3 Ammunition item metal fabrication. Projectile HE 175mm M437 mpts assembly. Approximately 34 inches long, 10 components, 6.88 inch outside diameter, parabolic shape with tapered base section. Steel ASTM 273-58T sections 1-14 inclusive for hot forge and heat treat method. Production requires highly technical staff engineers, metallurgists, chemists, and tool designers. Considered very difficult to produce to applicable specifications. APSA-USAMUCOM. Secret clearance required.

APPI No. AP-90. Simulator Booby Trap Flash M117 loaded - consists of approximately 18 components. Complete assembly is approximately 4" long x 1" diameter fabricated from steel strip FS-1009 high carbon steel bright music wire kraft paper 60 pounds grade B chipboard class 2 jute paper commercial felt number 10 glue quickmatch adhesive tape type II grade B and charge composition consisting of 50 PCT potassium perchlorate grade 1 33 PCT antimony sulfide and 17 PCT magnesium type I grade A granulation number 12. Firms bidding on this item should have a technical staff familiar with pyrotechnics manufacturing processes. This item is considered somewhat difficult to produce in accordance with government specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-91. Fuze Hand Grenade Practice M205A2 consists of 11 components and 5 assemblies. Body approx 2.3" x .81" x 1.7" L material zinc base alloy die casting AG40A or AC41A ASTM B-86 or aluminum alloy die casting ASTM B-85. Lever formed shape approx 4.0" L curved section by right angled lip section approx 1.7" L x .24 GA thick material steel strip CR temper 3. pull ring assy 2 components cotter pin steel wire type B 1 1/8" L Ring pull 1 1/2 coils close wound 1 1/4" D X .106" thick material steel wire WD 1020. Washer .75" OD X .52" ID X .078" thick material rubber vulcanized class RS910AF2. Igniter assy 2 components case igniter 1.78" L X .243" OD X .243" ID X .035" Wall thick at base material aluminum alloy strip 5052 ASTM B209. Charge black powder. Primer holder assy consists of 2 components holder primer 4.72" D Taper X .150" W with concentric center holes .173" and .10" D primer percussion M42 assy .1756" D X .119" L with 3 components cup anvil and cover. Charged with PA-101 primer composition or alternates. Striker assy consisting of 4 components. Striker hinge shape .494" W X .28" W X approx .79" L material steel strip S-1007 cold rolled. Point striker 5/16" D X .25" L material steel bar 1117 1113 1120 cold finished ASTM-A108. Pin hinge .67" D X .157" L material steel bar 1018 or 1020 cold finished ASTM A108. Spring .42" L X .28" D steel wire .04" D music heat treated. Protective finish cadmium or zinc plate. Manufacturing firms bidding this item should be technically staffed with engineers chemists and tool designers familiar with pyrotechnics manufacturing process. This item is considered somewhat difficult to produce to ordnance standards and specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-92. Mine AP M16A1. Complete assy is approx 4" diameter X 3 1/8" long and consists of approx 17 components. Body 3.85" diameter X 3.89" long and 3.275" ID 3.35" deep with counter-bore and threads material gray iron casting. Well detonator cup shape approx 1" diameter X 2.4" long with short threads on outside and inside material zinc base alloy die cast or polystyrene plastic. Plug top 3.47" diameter X .40" thick with hub 1" thick X 1 3/8" diameter with 13/16" threaded hole material gray iron casting. Pipe flash approx 1" diameter X 3.5" long and .532" ID with short threads on each end material zinc base alloy die casting or 1/2" standard steel pipe commercial. Container assy 4.045" diameter X 4.74" long fabricated from .014" thick steel by seaming soldering and crimping. Other misc components consists of gaskets copper strips cup detonator aluminum sheet .015" thick. Plug shipping zinc base alloy die casting or polystyrene plastic. Disc flash gilding metal .003" thick. Washer lead sheet .062" thick. Plug filler hole steel 1009 to 1020 .059" thick. Gasket rubber .078" thick. Bushing aluminum alloy rod 1.125" diameter. Holder delay zinc die casting or aluminum rod .922" diameter housing delay zinc base alloy die casting or aluminum alloy rod 1/2" diameter and washer delay. Same material as holder delay. Various components require phosphating painting plating to meet various salt spray requirements. Manufacturing firms bidding this item will require a competent staff of engineers metallurgists and tool engineers to design and maintain precision tools. This item is considered somewhat difficult to produce in accordance with specifications. No security clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-93. Fuze Mine M605 MPTS is 4.44" L X approx .94" W with 3 assemblies and 22 components. Release safety assy consisting of stand-

ard ordnance eyelet cotter pin and 10 inch cord material commercial glazed curtain fixture NR 2 or commercial white 8 strand cotton cord. Pin safety striker positive assy 2 components cord 10" L material cord line waxed 6 ply and pin safety striker 1.0" L X .111" Max D with 3 machined steps to minimum of .044" with holes drilled in diameters at each end material zinc die cast base alloy cast comp B alternate alum alloy die cast comp 5 5A 10 or 11. Prong 3 EA 1" L X .075" D with flats .078" x 1 1/16" W 1/8" from end of prong material steel music wire. Head safety .50 L X .285" D drill thru .125" D with slot .075" x .09" L material aluminum alloy rod condition T alternate aluminum alloy die cast comp 5 5A 10 or 11 alternate zinc base alloy comp B. Pin 1.9" L X .0360 D with .08" eye inside diameter at one end material steel music wire. Pin .98" L X .280" D with machined flat on side to .246" x .55" L off center hole .312" D and trunnion. .212" D X .425" L material steel bar FS1117. CF. Trigger. 1.225" L X major diameter .665" step diameter .375" with .129" center hole tapered .226" deep on one end with .42" L flat on opposite end, material zinc base alloy die cast comp B alternate alum alloy die cast comp 5 5A 10 or 11. Ring release 3/8" O. D. with 2 projecting ends, approx 2 full coils, material steel, spring. .194" OD x 4 1/2 coils, free height .277" material steel. .025" D music spring wire. Spring .29" OD x 18 1/2 coils, free height 1.473" material steel. .045 inch diameter, music spring wire. Striker 3.213" L x .126" D with collar .21" D with flats .150" W and 2 flats .076" D at approx 1.45" from 30 deg taper point, material steel bar, FS1117. Case. 2.13" L x .505" D with two stepped collar .755" and thread .4375" 20 UNF-1B plus thread .625 - 11 UNC-1A with 4375 ID. material zinc base alloy die cast comp B alternate alum alloy die cast comp 5 5A 10 or 11. Washer 8 point star shaped. .368" D x .128" ID x .0538" thick, material steel strip FS1009. CR. Temper No. 2. finish No. 3. alternate, steel, strip. FS1015 or FS1020. CR. Temper No. 4. finish No. 1. gasket. .75" OD x .52" ID x .078" thick material, synthetic rubber, sheet type RS 510BF2. Spring. .65" OD. 3 coils, free height .57" material steel. .051 D diameter, music spring plus .348 OD tapered at 15 DEG x .13" ID x .173" thick. Housing primer .87 L x .50" D with thread .4375" 20 UNF-1A .115 L and thread .4375 - 20 UNF-1B .37" L material aluminum alloy rod alternate, zinc base alloy, comp B head, flash igniter. 1.4" L X .375 max D with one end thread 4375" 20 UNF-1A. .05" to .24" L center bore. .199" D X 1" L and .101" D X .52" L. machined and double grooved on opposite end. Tube, cup shape. 1.44" L X .327" OD with .217 IS and .011 base wall material alum alloy sheet temper "O". This item is considered difficult to manufacture to applicable specifications. No security clearance required to receive this APPI. AP-USAMUCOM.

APPI No. 30. Chemical Agent. Thickener. Incendiary Oil. M4. The thickener, incendiary oil. M4 is a chemical agent composed of the diacid aluminum soap of isooctanoic acid and an antiagglomerant in accordance with Military Specification No. MIL-T-50009A. The isooctanoic acid shall consist of a mixture of acids derived from isobutyl alcohol and methyl heptanoic acid, and methyl ethylpentanoic acid. Commercial mixing, filtering and drying equipment would be required. No security clearance is required to obtain APPI.

APPI No. AV-122. Stand, test, aircraft generator. Variable speed drive, generator mounting bracket, blower tachometer, dual shaft output, for 3 phase 50/60 cycle, 200/440 volts, operation with reduced voltage starting. FSN 4920-626-9699. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-123. Container, reinforced plastic, reusable. Maintenance support (X-4) in accordance with limited coordination Military specification. Capacity of box is 200 cu ft, approx 1,000 lbs., in weight, for use with A 6,000 lb payload. FSN 8115-900-8193. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-124. Riveter, blind, pneumatic. 3/16" in dia, max rivet capacity, pulling head attachment. Accessories. 1 case (95354). 1 grip gage, double end 1/8 and 5/32 in (G-58-1). 1 Grip gage, double end. 3/16 and 1/4 in (G-58-2). FSN 5130-580-2305. Procurement by P/N. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-125. Elbow, swivel nut, hose. Crea body and nut, 90 deg angle, 5/8 in OD tube, ID of tube, A/A, hose connection end data, style 7, thd male, sect B, RDG 43, U/W .500 in ID hose, 1.965 in leg LG, sect A.5, RDG 43, swivel nut end data, in leg LG, sect A.5, RDG 43, 7/8 in 14 thd style 6, thd female, sect 3B thd or class 3 FIT, size, UNF or NF, class. 3B thd or class 3 FIT, .500 in lg thd, 1.408 in lg LEG, sect A.5, RDG 43, 37 Deg Seat, 1500 PSI operating pressure rating, passivated, Gov't Std data, MIL MS27065. FSN 4771-052-9520. No clearance required to obtain APPI.

APPI No. AV-126. Indicator, pressure. Dial, 1 torque pressure scale, 0 PSI to 50 PSI, 1 PSI graduated increments, finish of graduations, fluo-

rescent letters numerals and lined increments, pointer data, clock-hand type, fluorescent illuminated, incased, w/o instrument lamp socket, electrical data, AC, 26V, 400 cycles, single phase, connection data, electrical, 1, 3 pin contacts, and 10066C-10SL-3P, o/a dim., 2-5/8 in lg, 2 in dia., clamp mtg., MIL-1-25578, type MO-3, appl engine instrument, Acft. FSN 6620-581-2268. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-127. Switch, fuel. For auxiliary power unit (APU). Appl. CH-47 aircraft. P/N identification only. FSN 2915-968-4649. No clearance required to obtain APPI. USAAVCOM.

APPI No. AV-128. Filter, fluid, pressure. Permanent type, 6225 PSI, max rated operating pressure, single unit, 1 filtration element, cres, metal encased, reusable, 10 microns, nom filtration, 25 microns, absolute filtration, 1 inlet and 1 outlet connection, thd for tube fitting, w/o tube fitting, 9/16-18 thd, UNF, RH, internal, side location, w/Air-bleed valve, fastened by 2 mtg holes in head, dim., 5.620 in lg, 2.200 in W, 2.540 in to 2.560 in H, aluminum alloy sediment, appl., hydraulic inst., Acft. FSN 1650-963-2106. No clearance required to obtain APPI. USAAVCOM.

APPI No. AT-93. Tire Pneumatic 9.00 x 16, 8 ply NDMS nylon lt truck. The MS 35388-1 pneumatic tire is a major component of the traction system for a wheeled vehicle. This tire assembly has the following basic characteristics: (a) ply rating - 8 (b) type classification - lt trk (c) tread type - NDMS (d) cord material - nylon (e) max rated load - 2640 lbs (f) inflation pressure - 50 PSI (g) APP width 10.7 in (h) APP dia - 36.6 in. Specification MIL-T-46729A. SNL APP - Multiple. FSN 2610-540-4719.

APPI No. AT-94. Pad, driver's hatch, crash. The ORD 10866033 pad is a protective device mounted in the hatch ring of a tracked vehicle for benefit of crew. This pad assembly consists of following components: (a) frame (b) cushioning material (c) cover (d) mounting ring. SNL APP-G294, G312. FSN 2540-767-5411. No clearance required to obtain APPI. USATAC.

APPI No. AT-95. Rectifier, metallic assembly. The ORD 10936129 rectifier in conjunction with an alternator comprises the 24 volt electrical generating system for an engine installed in a tracked vehicle. This rectifier assembly consists of following components: (a) metal case (b) activated rectifier plates (c) spacers (d) insulated cables (e) cannon plugs (f) mounting pins (g) common hardware. Rectifier required to be fungus and waterproof, rust and corrosion resistant. SNL APP-G300. FSN 6130-065-1975. No clearance required to obtain APPI. USATAC.

APPI No. AT-96. Parts kit, universal joint propeller-shaft. The ORD 8331569 parts kit is a direct replacement for 2 1/2 ton wheeled vehicle propeller shaft universal joints that become unserviceable. This kit consists of following components: (a) 4 bearing assemblies (b) journal assembly (c) 4 snap rings. SNL APP - Multiple. FSN 220-692-6200. No clearance required to obtain APPI. USATAC.

APPI No. AT-97. Parts Kit, universal joint, front and rear axle drive shaft. The ORD 5702194 parts kit is provided for both front and rear wheel drive kit joints for a 1/4 ton wheeled vehicle. This kit consists of following components: (a) 3 bearing sets (b) cross assembly (c) 4 seals (d) 2 snap rings (e) 10 washers (f) "U" bolts (g) common hardware. SNL APP-G838. FSN 2520-857-1413. No clearance required to obtain APPI. USATAC.

APPI No. AT-98. Shock absorber, assembly front. The ORD 7409617 shock absorber assembly is a delco repairable type and a component of the 5 ton wheeled vehicle suspension system. This shock absorber assembly consists of the following components: (a) upper and lower over tube with integral eye (b) reservoir tube (c) piston with rod assembly (d) orifice plate (e) piston rod guide with seal assembly (f) special washers (g) springs (h) valves (i) baffle ring. SNL G744. FSN 2540-740-9617. No clearance required to obtain APPI. USATAC.

APPI No. AT-99. Disk, driven clutch assembly. The ORD 8735503 disk assembly is a component of the 5 ton wheeled vehicle power train. This assembly consists of following components: (a) cast or forged steel hub with internal splines (b) flexible disk (c) 2 friction facings (d) rigs (e) adhesive tie disk. SNL APP-G744. FSN 2520-997-3197. No clearance required to obtain APPI. USATAC.

APPI No. AT-100. Cover assembly, cargo body top. The ORD 6416338 cover assembly is used to protect personnel and cargo from inclement weather. This unfavorable conditions during vehicle operation. This cover assembly consists of following components: (a) No. 8 processed canvas (b) grommets (c) tie-down ropes (d) straps and buckle assemblies (e) rivets (f) sewing thread. SNL APP-Multiple. FSN 2540-741-6338. No clearance required to obtain APPI. USATAC.

APPI No. MI-19R1. Self Propelled Hawk Platoon Retrofit for Launcher (HAWK MISSILE SYSTEM). This retrofit will include repackaging of the Stan-

and Hawk Launcher Electronics for mounting on a tracked vehicle (XM 727) of the M 113 family. Various hydraulic and other mechanical subsystems will be provided for the XM 727 to position the blast deflector, launcher, suspension lockout pistons, reeling of cables, etc., required to prepare the vehicle for missile launch. This APPI is released for sub-contracting opportunities only. Secret clearance required to obtain APPI. No Federal Stock Number assigned. Requests for additional information should be directed to Raytheon Co., Missile and Space Division, Andover, Mass. USAMICOM.

APPI No. MI-65. Platoon Command Post (PCP). (HAWK MISSILE SYSTEM) The Platoon Command Post is an all weather mobile aluminum skin shelter which serves as the Self Propelled Platoon Command Center. The aluminum skin shelter is approximately 142" long, 66" wide and is mounted on an M113 chassis. A variety of items such as: power cables, antenna panels, cabling, etc., are included. This APPI is released for sub-contracting opportunities only. Additional information should be directed to Raytheon Co., Missile and Space Division, Andover, Mass. No Federal Stock Number assigned. Secret clearance required to obtain APPI. USAMICOM.

APPI No. MI-66. The Forward Area Contact Support Set (FACSS) (SHILLAGH MISSILE SYSTEM) includes a Transmitter Beam Pattern Analyzer, Guidance Set Group Analyzer and an Accessory Case, each contained in a waterproof case. The FACSS is used to perform the functions of measuring transmitter beam intensities, ratio of beam intensities and fault isolating a removable major item of the Shillagh Guidance Set Group installed in the Sheridan or M50 A1E1 vehicle. No Federal Stock Number assigned. Requirements for fiscal year 67 are for sub-contracting opportunities only and request for additional information should be directed to Aerodynamics Inc., Newport Beach, Calif. Method of procurement for fiscal years 68 and 69 will be competitive negotiation. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-67. Advance Development of the Surface-to-Air Missile Development (SAM-D). The SAM-D is intended to simultaneously acquire, track, identify, and destroy multiple air-supported targets, utilizing high performance missiles at a minimum reaction time. This APPI is released for sub-contracting opportunities only. The following contractors may be contacted for additional information on this APPI once they are presently performing the Contract Definition. Raytheon Co., Missile Systems Div., Bedford, Mass. 01730, Hughes Aircraft Co., Ground Systems Group, Fullerton, Calif., 92634, Radio Corp. of America, Defense Electronics Products, Moorestown, N. J. 10020. No Federal Stock Number assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. ME-69R1 REVISION. Grader, road, motorized, air-droppable, diesel engine driven. Grader shall be diesel engine driven, pneumatic tired, 4 or 6 wheeled, 10000 lb. min blade pull, 12 ft. blade and operable by one man for general construction work such as coarse and fine grading, low and high bank cutting, scarifying, and flat and V-ditching. Shall grade forward and reverse. All parts of the grader shall withstand without damage the full power of the engine at all gear ratios and under all working conditions. The grader moldboard shall operate in all positions without blade chatter, weaving, or rocking. The diesel engine shall conform to MIL-E-11276. In accordance with MIL-C-52416. FSN 3303-901-6173. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-73R1 REVISION. Generator set, gasoline engine driven, 100 KW, 400 cycle, alternating current. This set is a portable, air-cooled, 10 KW, 0.8 power factor lagging at 400 cycles per second, gasoline engine driven, alternating current, tubular frame, skid mounted. Set shall be connectable for the following voltage ratings: 3-phase, 4-wire, 120 volts line-to-neutral and 208 volts line-to-line (120/208 volts); 3-phase, 3-wire, 120 volts line-to-line; single phase, 2 wire, 120 volts; single phase, 3 wire, 120-240 volts. The diesel engine shall be a military design engine, Model 4A-084, FSN 2805-776-0485, and unless otherwise specified will be furnished by the Government. Set is intended to supply power for general purpose use. In accordance with MIL-G-52473 and Data List DL13211E4950. FSN 6115-926-6843. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-80R1 REVISION. Compressor, reciprocating, power driven, air. This is a 15 cfm, 175 psig, compressor, gasoline engine driven, garage type, Multistage, reciprocating, air cooled, piston compressor with an air reservoir, air hose, with an automatic unloader and air cleaner. Compressor shall be a base mounted unit, capable of being assembled on a Government loaned 1/4 ton, 2 wheel, military standard trailer chassis Model No. M569, FSN 2320-884-4817. The capacity of the receiver tank shall be not less than 20 gallons. Unless otherwise specified, a Government-furnished military 6 hp engine, Model No. 4A032, FSN 2804-

776-0483, shall be provided. The compressors are intended for use as a source of compressed air in the normal operations conducted at filling stations and vehicle maintenance shops. In accordance with MIL-C-13874, Type 1, Class 4, Style 2, FSN 4310-752-9634. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-101. Distributor, bituminous material, tank type, truck mounted, 800 Gallon Capacity. This distributor shall consist of a tank heating system, pumping unit, full circulating spray bar which can be extended to length of 24 feet, hand spray attachment, and all accessory equipment necessary to make a complete distributor. The overall width of the complete distributor when bar is in folded position shall be not more than 9 inches. The bituminous pumping unit shall consist of the gasoline engine, clutch and transmission. The 375 GPM bituminous pump shall be powered by one industrial type gasoline engine conforming to MIL-E-11275, Group 2. The engine shall be furnished complete with all accessories. Distributor shall be mounted on a Government furnished military truck chassis, 5-ton, 6x6, Model No. M61-A2, including a personnel heater and defroster, slave receptacle kit, and without winch, in accordance with MIL-T-740. The distributors are primarily intended for use in accurately applying bitumen during formation of bituminous surfaces and during certain types of soil stabilization processes. The distributors can also be used for transporting or transferring bitumens or for application of bitumen for dust alleviation. In accordance with MIL-D-575, Type 1, Class A, FSN 3895-663-4680. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-102. Sawmill, circular, semi-trailer mounted, 60" Blade, Diesel Engine Driven. The mobile sawmill shall be "right hand" and shall consist of a log deck, deck conveyor, log stop, log loader, carriage track, carriage husk, headsaw, sawdust-removal system, lumber rolls, diesel engine, a running gear, and a skid-mounted, diesel-engine powered, 3-saw edger that is transportable on the basic mill. The sawmill shall withstand towing at speeds of 30 to 40 mph over paved roads and speeds of 15 to 20 mph over gravel roads, without breakage or permanent deformation of any part or component. Sawmill shall load and saw logs up to 36" in diameter and 20 ft. in length, and shall produce not less than 1200 feet board measure of 1 inch cants per hour from No. 1 green oak logs 18 to 24 in. in diameter. This production rate shall be achieved when employing not more than seven men. Sawmill shall be capable of being assembled without welding from the transport position in not more than 5 hours by seven men with a 10-ton crane, and disassembled without any members being cut and prepared for transport in 2 hours by seven men with a 10-ton crane. Overall length shall be 38 ft. 10 in., overall width 9 ft., overall height 10 ft. 8 in., gross vehicle weight 48,000 lbs. Both diesel engines including instruments and instrument panel, means for connection to an auxiliary fuel supply, a precleaner, safety devices, a clutch, a charging generator and regulator, a charging receptacle, and an enclosure (housing) shall conform to Specification MIL-E-11276. Each fuel tank shall be of a capacity for 8 hours of continuous rated-load operation. Sawmill engine shall develop not less than 160 intermittent brake horsepower at a speed of 1,800 rpm as established by the engine qualification tests. Edger engine shall develop not less than 40 intermittent brake horsepower at a speed of 1,800 rpm as established by the engine qualification tests. Sawmill machinery shall be installed on a folding, tandem-axle semitrailer. The frame shall be of all steel welded construction with longitudinal frame rails extending the full length of the load carrying platform. A landing gear assembly of the ball screw type shall be located in the front of the semitrailer. The landing gear shall be the 2-speed, vertical-operating type with landing pads not less than 18 by 18 inches and each leg shall be capable of individual operation for use as leveling jacks. The semitrailer shall be furnished with a straight air brake system with service and emergency breakaway activation. Sawmill shall be equipped with a 24 volts vehicular electrical system, with service and breakout lighting, and shall be provided with not less than four floodlights with mounts for night operations. The log deck shall be of steel construction and shall have a 3-section, roller-chain conveyor powered by a reversible, hydraulic motor. In addition, a dummy skid (without chains) shall be located adjacent to the conveyor between the headsaw and conveyor to facilitate loading short logs onto the carriage. Conveyor chain travel speed shall be 30 fpm plus or minus 1 fpm. The carriage track shall be not less than 43 feet long and shall be positioned in relation to log deck, headsaw, and tail race so that logs 20 feet in length may be sawed. The carriage shall be of steel construction and shall be approximately 30 inches wide and 16 feet long. The carriage shall have not less than four trucks with 10-inch-diameter cast steel wheels. The carriage shall be actuated by a wire-rope feed that is spooled on a grooved drum and powered by a reversible, hydraulic motor, capable of operating the carriage at a rate of 10 complete cycles per minute

with a stroke length of 15 feet when the carriage is loaded to a gross weight of 4000 lbs. Sawmill shall be provided with one 54-inch and one 60-inch-diameter blade, inserted-tooth-type, right-hand head-saw tensioned to operate at 500 rpm. Sawdust-removal system shall be of the blower type powered by the sawmill engine. The blower shall have a capacity of not less than 4000 cfm of air with pressure equivalent to 9 inches of water when operating at 2,700 rpm. Edger shall have one fixed saw and two adjustable saws, which shall be the 14 inch diameter, 10 gage, inert-tooth type. Sawmill shall be provided with lifting and tie-down attachments. Sawmill is intended for use in sawing lumber and timber for military bridges and other heavy construction. In accordance with MIL-S-52205. FSN 3210-585-8197. No security clearance required to obtain APPI. USAMEC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Nov. 1, 1966 page 2 No. PSA 4177 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-30R-2. Projectile, HE, 4.2", M329A1, MPTS is 16.395" maximum length by 4.193" maximum outside diameter, 3 piece design, consisting of Body, 14.28" long by 4.191" maximum outside diameter, 3.73" inside diameter tapers down to 3.062" nose opening through a 10.218" basic radius, wall thickness in nose area is .23", base is counterbored to 3.750" inside diameter for a depth of .50", material, tube, steel, nonresulfurized, Specification QQ-T-830, Nose Adapter, 3.215" maximum outside diameter by 1.53" long threaded with a 2.0-12NS-1B thread, material, steel, nonresulfurized, ASTM Specification A107 or A108, Base, 4.165" maximum outside diameter by 1.47" long, .9375-14NS-2A, L. II. Thread on one end, material, steel, nonresulfurized, ASTM Specification A107, or steel, cold extruded, Specification MIL-S-11310, each of the above components must have a minimum yield strength of 45,000 pounds per square inch at 1 percent offset. The base and nose adapter are brazed 360 degrees to the body with silver brazing alloy, the assembly must withstand an internal hydrostatic pressure of 2500 pounds per square inch for 15 seconds without leaking. The interior and exterior surfaces are cleaned and phosphatized followed by a lacquer primer on one interior and a lusterless enamel or lacquer paint on the exterior, the exterior must withstand a 144 hour salt spray. Two plastic Protector Caps, one for the thread on the base and one for the opening in the nose adapter are also required. No clearance required.—AP USAMUCOM

APPI No. AP-31R-2. Fuze, MTSQ, M564 w/ Detonator and Relay loaded is approximately 2.4 inches maximum diameter by 5.816 inches long, procured detonator and relay loaded, complete assembly consists of approximately 166 component parts. Major components, Body, 2.40" diameter by 1.53 inches long with various counterbores, thread, holes and slots, material, brass, Specification MIL-B-13351 or QQ-B-637, Ring, Lock, 1.775" inside diameter by .27" long with 1-15/16" 24 thread on outside diameter with two .20 slots one side, material, stainless steel 416, QQ-B-763, Head, 1.785 inches long, 1.610" outside diameter tapers to approximately 0.55", several counterbores and a .8125 -28NX-2B thread, material, aluminum alloy 2024, temper T4, Specification QQ-A-268, alternate material aluminum alloy die casting, Specification QQ-A-591, Adapter, 1.377 inches long by 1.00" in diameter, 1.00-20UNEF-2A thread on one end with a .8125 -28NS-2A thread on opposite end, material, aluminum alloy 2024, temper T4, Specification QQ-A-268 or aluminum alloy 7075 temper T6, Specification QQ-A-282 or aluminum alloy die casting, Specification QQ-A-591, Cup, Booster, .825 inches long by 1.703" OD, 1.536" ID, .761" deep, 1.600 -20NS-2B-LX thread in mouth of cup, material, aluminum alloy, 3003-N14, Specification ASTM-E209 or aluminum alloy, composition 6061F, Specification MIL-A-12545, Plug Closing, 1.655" diameter by .395" L with various holes and counterbores, material, aluminum 2024-T4, Specification QQ-A-268 or 267 Temper 351 or QQ-A-268 or aluminum die casting, Specification QQ-A-591, Housing, 1.884" D by 1.625" L, 1.67" counterbore 1.167" deep with various holes and a 1.00" 20 thread inside one end, material, stainless steel 416, Specification QQ-S-763, Cup, Lower, 2.185" D tapered to 1.585" small end with various size holes and counterbores, OD is graduated from zero to 105, material, aluminum 2014-T6, Specification QQ-A-261 or 2024-T4, QQ-A-267 or 268, Body, 1.74" D by 1.123" L, various counterbores, precision holes 1.74"

20 thread on outside, also 1.60" 20 thread one end, material, brass, free machining. Specification MIL-B-13351 or brass, Composition 3, half hard, Specification QQ-N-35. Other small components such as gears, pinions, shafts, screws, plates, springs, discs, collars, pins, bushings, and "O" rings. Sub-assemblies and assembly must withstand a series of rigid tests including arming, non-arming, jolt, jumble, transportation-Vibration, temperature-humidity water-proofness, 40 foot drop, dynamic regulation at 6000 RPM so that timing error is 0.18 percent maximum from 2 to 100 seconds at the specified frequency, ballistic tests also required. Manufacturing firms will require a highly competent technical staff of engineers, metallurgists, technicians, tool engineers to design and maintain precision tools for mass production of precision parts. Contractor shall provide and maintain an effective quality assurance system in accordance with Specification MIL-1-45208. This item is considered extremely difficult to produce in accordance with applicable specifications. No clearance required. AP USAMUCOM.

APPI No. AP-39R-1, Projectile, Chemical, 155mm, M121E1, MPTS Assembly consists of six (6) components, Body approximately 23.75" L x 6" D, nose section threaded and precision finished within 16 to 32 micro-inches, material, steel, ASTM-A273 or MIL-S-11310, Adapter, Pinze, 2.88" D x 2.23" L x 1.909" ID, external and internal threads, material, steel, ASTM-A107 special bar quality or steel tubing, Specification QQ-T-830, Rotating Band, 6.36" D x 6.09" ID x 1.075" wide, material, gilding metal, Specification MIL-B-20292 or MIL-B-20295, Gasket, 2.19" D x 1.84" ID x .125" thick, material, rubber, neoprene, Type S, Class SC, Grade SC515, Specification MIL-R-3065, VCI Paper, approximately 20" square, material volatile corrosion inhibitor paper, Type I, Class 3, Style C, Specification MIL-P-3420, Gasket Shipping 2.83" D x 2.5" ID by .13" thick, material rubber, Specification MIL-R-3065, Type S, Class SC, Grade SC820 A, B, as specified in MIL-STD-417, Magnetic particle inspection in the nose section of each projectile required. Each projectile must withstand a helium gas test. Exterior is surrounded with one atmosphere of helium, a maximum of twenty (20) microns of mercury absolute pressure. Maximum leak permitted is 1 x 10 to the minus 6, centimeters per second. Projectiles are packaged on wood pallets for shipment. This item is considered very difficult to produce to specification requirements.

APPI No. AP-40R-1, Case, Cartridge, 105mm, M14B4, MPTS Assembly is 4.211" maximum OD x approximately 14.64" L, (3) components, Body, 14.142" L x 4.211" maximum OD at mouth, material, steel, 1007 to 1020 cold-rolled, finish No. 1, Specification QQ-S-698, -.024-.006" thick, Body to be wrapped from a trapezoidal blank so as to provide three thicknesses of metal at base and one thickness at the mouth, with overlap at mouth/. Base, 4.688" OD x .55" thick with step diameter 4.344" x .372" W and centered primer case hole .546 ID with .63" counterbore, material, steel, special bar quality, ASTM Specification A107, Collar 4.04" OD x .35" thick, formed ring, 2.56" ID, with V-notch at bottom and angled lip, material, steel, special bar quality, ASTM Specification A107. The three (3) items, phosphate coated and varnished prior to assembly. This item is extremely difficult to manufacture to applicable specifications. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. No clearance required. AP USAMUCOM.

APPI No. AP-41R-1, Grenade, Hand, Fragmentation M26A2, MPTS, 3.33" high x 2.36" OD, consisting of seven components upper body 1.62" high, 2.24" ID, .012" thick, well formed at one end .755" D x .135" deep, Lock seam formed at other end 360 degrees. Material: steel, strip, cold rolled, temp 5 finish No. 1, specification ASTM-109. Body lower 1.44" High by 2.24" ID .012" thick hole formed at one end, .995" ID for closing cap, lock seam at other end formed 360 degrees, material: steel, strip, cold rolled, temp 5 finish No. 1, specification ASTM A109 coil spiral 2.78" high by 2.22" OD spiral wrapped interior surface of coil to be notched, material wire, hard drawn 1010 finish No. QQ-W-461 alternate material-Carbon steel, cold finished 1010, to special tensile 90,000 PSI minimum ASTM-A-108, hardness after forming-Rockwell B84-98. Well 1.565" L x .565" OD .007" thick material: brass strip, alloy No. 1, .035 min nominal grain size, annealed ASTM, B36 bushing .76" high x .75" OD flanged and internally threaded at one end other end formed .565" ID. Material-steel bar, cold finished, B1113 of C 1213, ASTM A108, Alternate material: steel tube, seamless 1118, QQ-T-830. Well and bushing assembled and brazed 360 degrees, brazing filler metal Bag-1a or Bag-1, ASTM B260 and brazing flux, specification J-F-499, Cap Closing .08" high x 1.145" D, .012" thick cup formed, .08" high material: steel, strip cold rolled, temp 5, finish No. 1, ASTM A109, Disc Base .93" D x .0747" high, corrugated, material-steel, strip, cold rolled, temp 5 finish No. Specification ASTM A109. Disc

base assembled into Cap Closing by brazing or welding brazing filler metal, Bag-1a or Bag-1, ASTM B260 brazing Q-F-499, Ring Retaining Lower, 32" high .99" D .02" thick flanged .15" 360 degrees. Material: steel strip, cold rolled temp 5 finish No. 1, specification ASTM A109. Coil spiral assembled into upper and lower body. Double lock seams to be formed 360 degrees to withstand an interval air pressure of 15 PSI for 10 seconds. Well assembly secured to grenade by soldering 360 degrees, use solder, metal, alloy 50A or B, tin alloy ASTM B32 and soldering paste flux, specification Q-F-506. Closing Cap assembly to bottom of grenade by soldering. Manufacturing firms bidding on this item must have a qualified engineering staff of metallurgists, chemists and tool designers to fabricate this item to applicable government specifications. Item is not considered difficult to fabricate and assemble. No clearance required. AP USAMUCOM.

APPI No. AP-46R-1, Fuze, Proximity, M532. The complete fuze weighs 1.3 lbs., is six inches long and the length of its intrusion is 2.21". The data package for this item consists of classified and unclassified drawings and specifications. The maximum classification is secret. The M532 comprises a housing (Body), an antenna, an oscillator, an amplifier, a battery, an arming mechanism, a booster, a PD trembler switch and a switch to deactivate the proximity device. The visible parts of the M532 are a plastic nose cap mounted in an aluminum ring, which is attached to the aluminum fuze base, and a steel cup (extending beyond the base) which contains the S&A device and booster. The base of the fuze screws into the nose of the projectile. The deactivating switch is manually operated by turning the nose cap of the fuze. The electronic head consists of the oscillator and amplifier. The trembler switch is in the subassembly with the amplifier. The battery plugs into the base of the electronic head. Clearance Secret required. AP USAMUCOM.

APPI No. AP-94, Container, Fiber, M105A2, M451, f/105mm is 31-7/8" L x 5-5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-95, Container, Fiber, M451, f/105mm is 38 11/16" L x 5 5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-96, Container, Fiber, M435, f/105mm is 40 1/2" L x 6 1/4" OD. No clearance required. AP USAMUCOM.

APPI No. AP-97, Container, Fiber, M34A1, f/105mm is 6 15/16" L x 5 5/32" OD. No clearance required. AP USAMUCOM.

APPI No. AP-98, Container, Fiber, M422, f/105mm is 40 11/16" L x 5 5/32" OD. The above containers are all constructed basically the same and are spiral wound. They are made in several sections of duplex kraft paper and in two tubes approximately 3/8" thick in accordance with specification MIL-C-2439. Outer (cover) tubes are impregnated with asphalt and has a .001 thick aluminum foil MIL-A-148 adhered between two layers of paper. Contains metal ends No. 28 gage steel with spacers and pads. Wooden separator and metal packing stop or alternate molded support assembly sometimes procured separately and provided to container producer for insertion into assembly. No clearance required. AP USAMUCOM.

APPI No. AP-99, Shell, 60mm Mortar, M49A2E1 — is a pearlitic malleable iron casting Class 53004. Specification MIL-C-46971. Approximately 5" L and circular in a leadrop shape with a maximum OD of 2 3/8" with a .003 tolerance, and a minimum diameter at one end of approximately 1" with .020 tolerance. Both ends of the body are threaded, one end .625-18UNF-2B and the other end 1.5-12 UNF-1B. The wall thickness average approximately one-quarter inch on the finished item. The body requires hydrostatic testing at 4000 PSI, air test at 150 PSI, a magnetic particle inspection and radiographic inspection. The protective finish is olive drab paint on the exterior (.9 to 1.5 mil thickness) and a type of acid proof black paint on the interior. No clearance required. AP USAMUCOM.

APPI No. AP-100, Projectile 60mm, 111. Mortar, M83A3 — is 10.09" long, 2.364" at the point of maximum diameter and consists of (a) a Tail Assembly (b) a Body Tube Assembly (c) Illuminant Loading Assembly (d) Parachute Assembly and a number of individual components. (a) The Tail Assembly consists of (1) the Cone, Tail made from steel, strip, 1020, Specification QQ-S-698 having a length of 3.45", maximum ID of 2.183", tapering to a minimum ID of .820" and having a wall thickness of .068", (2) Coupling fabricated from steel, bar or tube MT 1010 to MT 1030, 1110 to 1118 Fed Std No. 66 or ASTM-A-107 or A108 with an ID of 2.07", a length of .88" and an irregular OD varying from 2.180" to 2.362", (3) Adapter, Fin constructed from steel, bar or tube, 1010-1020 or 1110-1118 Fed Std No. 66 or ASTM-A107 or A108, having a length of .38", OD of .823, a flange of .94 diameter and .06" wide and having a .625 — 18 UNF-2B thread cut into the ID. Thread diameter and coupling are brazed into the tail

cone with copper braze B Cu-1 ASTM B260-627. The tail cone assembled Rockwell B-80 all over. (b) The Body, Tube Assembly includes (1) the Tube Body made from steel tubing, seamless, CD, MT 1010 to MT 1030 Specification QQ-T-830 with a length of 6.31", ID of 2.219" and wall thickness of .056", (2) Adapter constructed from steel, MT1010 to MT 1030, 1110 to 1118, Fed Std No. 66 or ASTM-A107 or A108, having a length of .38", OD of .823, a flange of .94" diameter and .06" wide and having a .625 — 18 UNF-2B thread cut into the ID. Thread dimensions apply after assembly and plating. The adapter fin and coupling are brazed into the tail cone with copper braze B Cu-1 ASTM B260-627. The tail cone assembled Rockwell B-80 all over. (b) The Body, Tube Assembly includes (1) the Tube Body made from steel tubing, seamless, CD, MT 1010 to MT 1030, Specification QQ-T-830 with a length of 6.31", ID of 2.219" and wall thickness of .056", (2) Adapter constructed from steel, MT1010 to MT 1030, 1110 to 1118, Fed Std No. 66 or ASTM-A107 or A108 having a length of .50", OD of 2.226", a flange on one end of 2.335" diameter and .13" width and 2-20 UNS-1B thread cut into the ID. The adapter is brazed to the tube, body with silver solder, Class 1, Specification QQ-S-561. (c) The Illuminant Loading Assembly consists of the (1) Illuminant Suspension Assembly which includes the (a) Sleeve made of copper or zinc plated copper .37" long, .251" high, .170" wide and crimped on to the suspension cable which is approximately 16" long and made from preformed cable 7 x 7, 1/16" steel, Specification MIL-W-1511, (b) Disc constructed of steel, strip temper No. 1 or 2, ASTM-A109 with 2.212" diameter, .105" thickness and with a .10" diameter hole in the center, (c) Spacer, made from felt, No. 9R5, ASTM-D944, having a diameter and four equally spaced 3/16" holes located on a circle .50" from the center, (d) Plug, made from plywood, 5 ply, commercial, exterior, Grade C, back and inner ply, with a 3/8" width, 1-13/16" diameter and a 1/4" center hole counterbored to 1/2" for a depth of 3/32", and a 1/32 x 45 degrees chamfer on the edge of the counterbored face (e) End, Cable fabricated from steel, bar AISI Grades C1005-1010, C1108-1110, or B1111-1113, Specification ASTM-A107 having a length of .37", diameter of .20", a flange of diameter .50" and length of .09" and a hole drilled through the center with a diameter of .070", (2) Case, made from boxboard sheet, commercial finish, density No. 4 with a length of 3-1/32", OD of 2-11/64" and ID of 1-51/64", (3) Illuminant Composition, consisting of 36% sodium nitrate, Grade B, Class 2, Specification, MIL-S-322, 9% laminac type A, 55% magnesium type I, 30/50 mesh, average particle size 350 microns Specification MIL-P-14067, (4) First Fire Composition which includes 50% barium nitrate, Class A, C or D, Specification MIL-B-162, 5% laminac type B, 20% silicon, Grade 1, Class B, Specification MIL-S-230, 10% tetranitrocarbazole, Specification MIL-T-13723 and 15% zirconium hydride, technical grade, Specification MIL-Z-21353, (5) Disc, Top made from chipboard, commercial, finish No. 2, with a diameter of 2.17", thickness of .062", having a center hole of .25" diameter and 4 equally spaced .16" holes located on a circle .50" from the center, (6) Spacer, made from felt, No. 9R5, ASTM D944, having a diameter of 2.24", 3/8" thickness, center hole of .10" diameter and four equally spaced 3/16" holes located on a circle .50" from the center, (7) Disc, Quickmatch made from steel strip, temper No. 1 or 2 ASTM-A109 with a thickness of .060", diameter of 2.212", and four equally spaced holes located on a circle .50" from the center, (8) Quickmatch, type II, Class A, Specification MIL-Q-378, 2 pieces 5" in length. (D) The Parachute Assembly consists of (1) an octagonally shaped Canopy, 15 1/2" on a side, made from parachute cloth, type D, Specification PA-PD-76, (2) 8 Shroud Lines, 3/16 x 30" long made of nylon tape or flat braid, minimum breaking strength 40 pounds. Individual components associated with the parachute assembly are the Disc Parachute fabricated from chipboard, commercial, finish density No. 2 with a 2-532" diameter and .062" thickness, Spacer, Parachute, (2 required) made of steel, strip, temper No. 2 ASTM-A109 having a length of 1.75" and a semicircular cross section of 1.10" radius. Container (2 required) constructed of boxboard, sheet, finish density No. 4 commercial, having a height of 1/2", a thickness of .021, a base in roughly the shape of a semicircle with a diameter of 2-5/32" and a notch 1/2" wide cut at the center. The tail assembly is attached to the body, tube assembly by means of four Pins, Shear, made from brass, temper 1/4 hard, ASTM B134, Alloy No. 6, which are inserted in holes drilled through the tube, body and into the coupling. The length of the pins is .13" and the diameter is .095". One end is tapered to a point at an angle of 68 degrees. The adapter and fin are closed during shipping by a Plug, Closing and Plug, Shipping respectively. Both are molded from commercial polyethylene. Manufacturing firms bidding on this item will require competent engineering and metallurgical staffs in addition to personnel familiar with the handling, blending pressing of pyrotechnic com-

to produce. This item is considered difficult to produce. Clearances required: AP USAMUCOM.

APPI No. AP-101. Projectile, HE, 105mm, MPTS/MI consists of three components. Body Shell 15 7/8" long, OD 4.625" below rotating band groove 4.125" OD, 4.16" OD at body, 4.125" at bourrelet and tapered to 2.35" OD at the nose. 3.05" up from base of projectile a groove is machined and knurled for rotating band. Nose of projectile has interior thread 1/2" minimum full thread. Exterior of nose end has 12 starting notches equally spaced, .06" deep, .03" wide. Material: forging steel, annealed. MIL-13554 alternative when shell is produced by cold extrusion process use specification MIL-13115 steel bars for cold shaping. When produced by cold extrusion, use specification, BPPD-55. When produced by hot cup, cold draw process, use specification MIL-S-10520, shall not be used. Yield strength, 115, 65,000 PSI, elongation 15%. Stress relief, MIL-P-13554 not applicable when produced by cold drawing and only to the heated and cold drawn part, but hot cup cold draw process, heat to 416° ID, 197° thick by 1/2" to 1/4" to produce cold. Material: Sintered metal, MIL-B-20292 or Sintered metal, 4.5% at MIL-R-11073. Cover base MIL-B-11073. Material: Steel, strip, FS 1015, 1/4" thick, No. 4, 10th No. 1. A satisfactory test of a full test is a requirement for the acceptance of each lot of projectiles from the metal parts manufacturer. No clearance required AP USAMUCOM.

APPI No. AP-102. Case Cartridge, M14B1, 105mm, HE, 105mm, 14.54" L, 4.231" OD at mouth, 4.084" OD at base, base and flanged 1907, 4.685" D x 1.17" thick. Base thickness varies from .18" near base to .12" at mouth. Heat treated, varying from 1045 to 1047 at base to RC 34 to RC 42 in body to 1045 to 1047 at mouth. Base end has machined primer hole 1.17" ID and counterbored to .60" ID. Material: steel. Specification MIL-S3289. Material is required for each lot. Manufacturing firm holding this part will require a highly competent staff of engineers, metallurgists, chemists, and tool designers to operate on mass production basis. This item is considered difficult to manufacture in accordance with the specifications. No clearance required AP USAMUCOM.

APPI No. AP-103. The M14 grenade projector is a 7 1/2" diameter, approximately 15 inches long by 3 1/2" diameter, barrel and is covered on the exterior by a rolled plate aluminum cap. The tube has a two piece sub containing one each White Phosphorus (WP) and a Hexachlorethane (HC) smoke grenade which are separated by a plastic spacer and cushioned with rubber pads. A cartridge with percussion primer and rubber seal is installed in the base of the tube and held in place by a threaded plug, retainer. A rubber seal is fastened to the end of the sub near the base of the tube to prevent gases from escaping during buildup of pressure to eject the shot. The complete projector weighs approximately five pounds. Grenades and cartridges are excluded from this requirement. No security clearance is required to obtain APPI EA USAMUCOM.

APPI No. EL-101. Camera Set, KS-15() 35mm still camera which normally mounts 5cm f/2 lens. Has a split range finder, double exposure prevention device and interchangeable lenses. Also has built-in flash synchronization. Portable and may be operated from camera case height 2-5/8 in. width 5-1/2 in. depth 2-1/4 in. wt 35.25 lb. in.

APPI No. EL-102. Recorder-Reproducer Set, AN/PN-14. This equipment is a portable battery operated magnetic tape recorder-reproducer. It is designed to use 1/4 inch magnetic tape on reels 7 inches in diameter or smaller. This equipment makes 10 track recordings at a tape speed of 3 3/4 ips; giving a recording time of 2 hours on 1200 feet of tape.

APPI No. EL-103. Radio Set, UHF AN/ARC-51 RN. This set provides radio communications within the frequency range of 225.0 to 399.95 mc. One way interchangeable with Radio Set AN/ARC-51X.

APPI No. EL-104. Navigational Set, Tacan AN/ARN-52(V). Tacan, when installed in aircraft or helicopter, provides bearing, distance and tone identity information to indicate location of communicating ground station with respect to aircraft or helicopter. Tacan also provides range information between aircraft when used with aircraft having AN/ARN-52(V) Tacan.

APPI No. EL-105. Test Set, Transponder Set AN/APM-23. Provides input power and control switches to permit operation of AIMS transponder sets during bench checks and maintenance. Components are housed in a combination transit/accessory case and designed for joint transervice use.

APPI No. EL-106. Test Set, Radio AN/ARM-5. Provides simulated comm, phase localizer, and tone localizer signals for testing of VHF navigational equipment in one or more aircraft. Also will provide

signals of known frequency, amplitude, and modulation for quantitative bench tests of UHF navigation receiving equipment.

APPI No. EL-107. Test Set, Radio AN/ARM-8. Performs operational checks on and gives adjustment capability for Radio Sets AN/ARC-44() and AN/ARC-45() and Receiving Set, Radio AN/ARN-33() while installed in aircraft.

APPI No. EL-108. Test Set, Radio AN/ARM-45. Used to perform operational checks on Radio Set AN/ARC-73() and associated aircraft wiring. The AN/ARM-45() is portable and may be used in a shop.

APPI No. EL-109. Test Set, Radio AN/ARM-63. Used to test various airborne radio sets when removed from the aircraft for bench testing; also makes certain voltage current, and power measurements in addition to facilitating the use of standard test equipment.

APPI No. EL-110. Test Set, Radio AN/ARM-68. Provides facilities for performing electrical tests to all components of Radio Set AN/ARC-44 or AN/ARM-45.

APPI No. EL-111. Converter, Frequency, Electronic AN/ARM-69. Converts 114.9 mc; received from SG-66/ARM-5 to frequency selector switch of Converter, Frequency Electronic AN/ARM-69 (329.3 mc to 335.0 mc) for testing glide slope frequencies of AN/ARA-54.

APPI No. EL-112. Test Set, Radio AN/ARM-92. A test set which will provide facilities for operational check, repair, adjustment and maintenance of Receiving Set, Radio AN/ARN-82.

APPI No. EL-113. Test Set, Direction Finder Set AN/ARM-93. A test set which will provide facilities for operational check, repair, adjustment and maintenance of Direction Finder Set, AN/ARN-83.

APPI No. EL-114. Simulator, Aircraft Displacement AN/ASM-120. Used as a rotating fixture and induces angular motion in the stability augmentation system thus simulating the displacement of the aircraft in flight.

APPI No. EL-115. Electronic Shop, Semitrailer Mounted AN/ASM-189. Used for maintenance and calibration of avionic communication, navigation, photographic and infrared systems up to 4th and limited 5th echelons.

APPI No. AT-101. Shaft Assembly, flexible. The ORD 7527479 Shaft assembly connects the speedometer assembly to the speedometer drive gears in the vehicle transmission. This shaft assembly consists of following components: (a) Flexible inner core (b) casing (c) core tips (d) ferrules (e) clamp nuts. SNL APP-Multiple. FSN 6680-752-4749. No clearance required to obtain APPI USATAC.

APPI No. AT-102. Axle assembly, automotive, driving. The ORD 1094521-2 Axle assembly is a major component of the power train for a 10 ton wheeled vehicles. This axle assembly has following basic characteristics: (a) track width 81 inches (b) distance between spring seats 41 inches (c) single speed, Ratio 10.11 to 1 (d) Air brake assemblies (e) hubs and drums. SNL APP-G792-FB. FSN 2520-905-5979. No clearance required to obtain APPI USATAC.

APPI No. AT-103. Winch with level wind assembly. The ORD 7974497 winch is used on the 10 ton truck tractor and mounted to rear of cab. It is a worm geared horizontal drum type equipped with internal automatic brake; level wind and cable tensioner. This winch assembly consists of following components: (a) cast drum (b) driving mechanism (c) automatic brake (d) swivel sheave assy (e) lever wind (f) cable tensioner (g) cable (h) mounting frame (i) controls. SNL APP-G792, FSN 3850-506-8453. No clearance required to obtain APPI USATAC.

APPI No. AT-104. Distributor, ignition assembly. The ORD 7353276 distributor assembly is a major component of the electrical system for a 6 cylinder gasoline engine. Assembly is waterproof and consists of following components: (a) cover (b) housing (c) cap (d) rotor (e) drive shaft (f) points (g) resistor (h) capacitors (i) spark coil (j) miscellaneous hardware. SNL APP-G744, FSN 2920-294-3679. No clearance required to obtain APPI USATAC.

APPI No. AT-105. Carburetor assembly, with governor and anti-dieseling valve assembly. The ORD 8331877 carburetor assembly is a major component of the fuel system for a 6 cylinder gasoline engine. This carburetor assembly consists of following components: (a) air horn (b) throttle body (c) governor (d) main body (e) float (f) cover (g) jets (h) gaskets (i) venturi (j) throttle plates (k) shaft (l) anti-dieseling valve (m) miscellaneous hardware. SNL APP-G744, FSN 2910-562-0441. No clearance required to obtain APPI USATAC.

APPI No. AT-106. Distributor, ignition, assembly. The ORD 8712398 distributor assembly is a major component of the electrical system for a 4 cylinder gasoline engine. Assembly is waterproof and consists of following components: (a) cover (b) housing (c) cap (d) rotor (e) resistors (f) drive shaft (g)

points (h) spark coil (i) capacitors (j) miscellaneous hardware. SNL APP-G838, FSN 2920-065-7536. No clearance required to obtain APPI USATAC.

APPI No. AT-107. Transfer assembly with hand brake band, brake drum and output flange. The ORD 7411327 transfer assembly is a major component of the power train for a 2 1/2 ton truck. This assembly consists of the following components: (a) case (b) covers (c) bearings (d) input and output flanges (e) shafts (f) springs (g) shifting forks (h) transfer shafts (i) gears (j) seals (k) snap rings (l) spacers (m) gaskets (n) hand brake drum (o) hand brake band. SNL APP-Multiple, FSN 2520-741-1237. No clearance required to obtain APPI USATAC.

APPI No. AT-108. Winch assembly, front mounting. The ORD 7411122 winch is used on the 5 ton truck and is mounted between radiator and front bumper. It is a worm geared horizontal drum type equipped with internal automatic brake; lever wind and cable tensioner. This winch assembly consists of following components: (a) cast drum (b) driving mechanism (c) automatic brake (d) swivel sheave assy (e) lever wind (f) cable tensioner (g) cable (h) mounting frame (i) controls. SNL APP-G744, FSN 2590-741-1122. No clearance required to obtain APPI USATAC.

APPI No. WE-89. Quadrant, M14, P/N 86263110. Principal parts consist of c/n gears, knobs, bearings, contact, light, level assembly and counter and differential assembly; this item is considered difficult to make.

APPI No. WE-90. Sight, infinity, P/N 8635466, principal parts consist of c/n reticle, lens assembly, receptacle assembly, contacts and switch.

APPI No. WE-91. Telescope, panoramic, M117, P/N 7660400, principal parts consist of c/n lenses, reticle, prism, gears, counter, insulator, rheostat and knobs; this item is considered difficult to produce.

APPI No. WE-92. Telescope, elbow, M92F, P/N principal parts consist of lenses, prisms, reticle and eyepiece assembly; this item is considered moderately difficult to produce.

APPI No. WE-93. Quadrant, M1A1, P/N 7197156, principal parts consist of c/n gears scales, knobs, level, springs and other closely fitting parts and a carrying case; this item is considered moderately difficult to make.

APPI No. WE-94. Mount telescope, M90, P/N 8299 670, principal parts consist of c/n housing, worm gear and knob; this item is considered moderately difficult to produce.

APPI No. WE-95. Link assembly, P/N 7660651, consists of approximately 16 machined parts.

APPI No. WE-96. Light instrument, M13, P/N 654-3450, principal parts consist of c/n case, switch, lamp holder and cords.

APPI No. WE-97. Sight, M4, P/N 7579927, principal parts consist of collimator assy, with diaphragm, lens, reticle, knobs, level, bushings, gears and scales; this item is considered moderately difficult to produce.

APPI No. WE-98. Mount telescope, M78, P/N 757-9986 (90-172-2), principal parts consist of body, worm gear and machined parts; this item is considered moderately difficult to produce.

APPI No. WE-99. Telescope, M105F, P/N 8574700-2, principal parts consist of c/n lenses, reticle and prism, this item is considered difficult to make.

APPI No. WE-100. Ballistic drive, M4, P/N 764-9132, principal parts consist of c/n linkages, scale, springs and level; this item is considered moderately difficult to produce.

APPI No. WE-101. Telescope, M103A1, P/N 105-27382, principal parts consist of lens assembly, prism and eyepiece.

APPI No. WE-102. Mount telescope, M137, P/N 858-7295 an assy. of light, contacts, springs, clamps, bearings and other parts; this item is considered moderately difficult to produce.

APPI No. WE-103. Quadrant, M15, P/N 8247683, principal parts are lens, bearings, counter assemblies, gears, level, springs, switch, lamp and contacts; this item is considered difficult to produce.

APPI No. WE-104. Fuse setter, M26, P/N 7644760 an assembly of machined parts.

APPI No. WE-105. Periscope, M17, P/N 7043549, principal parts are body, cover mirrors and windows.

APPI No. WE-106. Light, M14, P/N 7197188 (654-3977), consists of case reflector, lamp and 2 filters.

APPI No. WE-107. Telescope, elbow, M116C, P/N 8587491 (8587431), principal parts consist of lenses, prism, eyepiece and reticle.

APPI No. WE-108. Telescope, panoramic, M115, P/N 8587340, principal parts are c/n body, lens assys, prisms, bearings, bushings, gears, reticle, worm gear and springs; this item is considered difficult to produce.

APPI No. WE-109. Case, M82, P/N 7692958, a steel case with pads, trunk bolts and carrying strap.

APPI No. WE-110. Computer, ballistic, M13A2, P/N 8621000, principal parts are bearings, bushings, cams, circuit breaker, counter, gear assys., harness assembly, rheostat and springs; this item is considered moderately difficult to produce.

APPI No. WE-111. Drive, ballistic, M10A5, P/N 862-1333, an assembly of machined parts such as brackets, rods and links; this item is considered moderately difficult to produce.

APPI No. WE-112. Mount, periscope, M118, P/N 8619450, an assembly of machined parts such as bar, bracket and plate; this item is considered moderately difficult to make.

APPI No. WE-113. Mount, Periscope, M119, P/N 8619585, an assembly of machined parts such as bar, bracket and plate; this item is considered moderately difficult to produce.

APPI No. WE-114. Mount, telescope, M114, P/N 857-490, an assembly of mechanical parts such as bar, brackets and plate; this item is considered moderately difficult to produce.

APPI No. WE-115. Periscope, M36, P/N 5800973 (10515850), a complex assembly of optical, mechanical and electrical parts; this item is difficult to produce.

APPI No. WE-116. Head assembly, P/N 10514220, a complex assembly of mechanical parts; this item is considered difficult to produce.

APPI No. WE-117. Control light, source P/N 862-0860, principal parts are bracket, lamp holder, resistor and knob.

APPI No. WE-118. Mount, telescope, M134, P/N 8626072, Principal parts are gears, shaft, spring and level; this item is considered moderately difficult to produce.

APPI No. WE-119. Telescope, panoramic, M113, P/N 8626189, a complex assy. of gears, knobs, lens assemblies, reticle, counter and prisms; this item is considered difficult to produce.

APPI No. WE-120. Corrector, M4, P/N 8626159, an assy. of machined parts, level and springs; this part is considered moderately difficult to produce.

APPI No. WE-121. Periscope, M26, P/N 7688875, an assembly of case, mirrors and windows.

APPI No. WE-122. Post, Aiming, M10, P/N 769-2156, an assembly of tubes point, alidade and miscellaneous parts.

APPI No. WE-123. Mount, telescope, M110, P/N 765-9765, an assy. of housing, gears, springs, worms and other mechanical parts.

APPI No. WE-124. Mount telescope, M3A1, P/N 7597736, principal parts are knob, gears and housing. This item is considered moderately difficult to produce.

APPI No. WE-125. Control, light, source, P/N 864-4351, assembly of case, clamps, cables, switch, rheostat, knob and miscellaneous parts.

APPI No. WE-126. Setter, Fuse, M28, P/N 768-8626, assy. of mechanical parts such as body, bracket, insulators and dial.

APPI No. WE-127. Mount, telescope, M119, P/N 105-27950, an assembly of mechanical parts such as housing, clamp, bracket and switching circuit assembly; this item is considered moderately difficult to produce.

APPI No. WE-128. Telescope, M119, P/N 8624500, an assembly of body, lenses, prism, headrest and adjustments; this item is considered difficult to produce.

APPI No. WE-129. Periscope, M47, P/N 8599700, assembly of body and prisms; this item is considered difficult to produce.

APPI No. WE-130. Quadrant, M13A1C, P/N 828-6737, an assembly of mechanical parts including housing, level, scale, knob, worm, springs, bushing and dial; this item is considered moderately difficult to produce.

APPI No. WE-131. Mount, telescope, tank, P/N 105-13360, an assembly of mechanical parts such as housing, brackets, rods and arms; this item is considered moderately difficult to produce.

APPI No. WE-132. Periscope, M27, P/N 7633132, principal parts are case, mirrors and plastic parts.

APPI No. WE-133. Quadrant, M4A1, P/N 7597761, principal parts are worm and gear, knobs, micrometer, springs, bearings, shaft and scales; this item is considered moderately difficult to produce.

APPI No. WE-134. Telescope, M90F, P/N 820-5096, principal parts are eyepiece, lenses, prism and body.

APPI No. WE-135. Head assembly, P/N 7688707, principal parts are prism, machined head and plates; this item is considered moderately difficult to produce.

APPI No. WE-136. Case, carrying, M81, P/N 764-02951, principal parts are steel body, pods, latch and strap.

APPI No. WE-137. Periscope, tank, XM44, P/N 821-6000, a complicated assy. of machined and optical parts; this item is considered difficult to produce.

APPI No. WE-138. Periscope, M48, P/N 10516700, principal parts are body, head, lenses, prisms; this item is considered difficult to make.

APPI No. WE-139. Case, carrying, P/N 8247245, a watertight steel case with lid, hinges and gaskets.

APPI No. WE-140. Plunger, Slide Stop, P/N 501-3193, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3193. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-141. Spring, Plunger, P/N 5013194, a small arms part. Coiled music wire spring .593 inches long. Stress relieving is required. FSN 1005-501-3194. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-142. Plunger, Safety Lock, P/N 5013195, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3195. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-143. Sight, Rear, P/N 5013196, a small arms part. This part is made of carbon steel bar. FSN 1005-501-3196. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-144. Sight, Front, P/N 5013197, a small arms part. This part is made of strip steel. FSN 1005-501-3197. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-145. Link Barrel, P/N 5013198, a small arms part. Made of carbon steel. Heat treatment is required. FSN 1005-501-3198. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-146. Spring, Recoil, P/N 5013200, a small arms part. Music wire spring approximately 6.5 inches long. Stress relieving is required. FSN 1005-501-3200. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-147. Plug, Recoil Spring, P/N 501-3201, a small arms part. A screw machined part made of carbon steel. FSN 1005-501-3201. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-148. Spring, Firing Pin, P/N 501-3204, a small arms part. Music wire coil spring 1.70 inches long. Stress relieving is required. FSN 1005-501-3204. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-149. Stop, Firing Pin, P/N 50132-05, a small arms part. A machined carbon steel part. Heat treatment is required. FSN 1005-501-3205. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-150. Mainspring, P/N 5013208, a small arms part. Music wire coiled spring 2.156 inches long. Stress relieving is required. FSN 1005-501-3208. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-151. Pin, Mainspring, Housing, P/N 5013212, a small arms part. Approximately .76 inches long, made of tool steel drill rod. Heat treatment is required. FSN 1005-501-3212. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-152. Retainer, Housing, Pin P/N 5013213, a small arms part. A screw machine part made of carbon steel. Heat treatment is required. FSN 1005-501-3213. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-153. Loop Lanyard, P/N 5013214, a small arms part. This part is made of carbon steel bar stock. FSN 1005-501-3214. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-154. Spring, Magazine Catch, P/N 5013217, a small arms part. Approximately 3/4 inches long, music wire, stress relieved. FSN 1005-501-3217. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-155. Lock, Magazine Catch, P/N 5013218, a small arms part. A machined carbon steel part. Heat treatment is required. FSN 1005-501-3218. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-156. Lock Safety, P/N 5503840, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-550-3840. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-157. Magazine Assembly, P/N 550-8694, a small arms part. Consists of coil spring, tube and strip steel parts. FSN 1005-550-8694. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-158. Housing, Mainspring, Assembly, P/N 5564058, a small arms part. Consists of three machined parts made of carbon steel. FSN 1005-556-4058. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-159. Stock, Right Hand, Plastic, P/N 5564062, a small arms part. A moulded phenolic plastic part. FSN 1005-556-4062. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-160. Stock, Left Hand, Plastic, P/N 5564063, a small arms part. A moulded phenolic plastic part. FSN 1005-556-4063. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-161. Rod, Cleaning, M4, P/N 556-4102, a small arms part. This part is made of hard drawn, cold finished, carbon steel bar. FSN 1005-556-4102. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-162. Link, Barrel, P/N 7267771, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0774. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-163. Link, Barrel, P/N 7267772, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0775. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-164. Link, Barrel, P/N 7267773, a small arms part. A small blanked and finished part made of carbon steel. Heat treatment is required. FSN 1005-586-0776. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-165. Sight Front, P/N 7268316, a small arms part. This part is made of steel by precision casting process. Sample radiographic inspection is required. FSN 1005-586-0777. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-166. Sear, P/N 7268068, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-592-9974. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-167. Tube, Plunger, P/N 6008594, a small arms part. A machined part made of carbon steel. FSN 1005-600-8594. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-168. Stop, Slide, P/N 6008595, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8595. No security clearance is required to obtain USAWECOM APPI.

APPI No. WE-169. Bushing, Barrel, P/N 6008596, a small arms part. Part is made of wrought steel or cast steel. Heat treating and sample radiographic tests are required. FSN 1005-600-0596. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-170. Guide, Recoil Spring, P/N 6008597, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8597. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-171. Extractor, P/N 6008598, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8598. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-172. Pin, Firing, P/N 6008599, a small arms part. Machined part made of carbon steel. Heat treatment is required. FSN 1005-600-8599. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-173. Strut, Hammer, P/N 6008600, a small arms part. This part is made from carbon steel spring strip. Heat treatment is required. FSN 1005-600-8600. No security clearance is required to obtain USAWECOM APPI.

APPI No. WE-174. Spring, Sear, P/N 6008602, a small arms part. A formed part made of carbon steel spring strip. Heat treating is required. FSN 1005-600-8602. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-175. Disconnector, P/N 6008603, a small arms part. This part is machined from carbon steel. Heat treatment is required. FSN 1005-600-8603. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-176. Catch, Magazine, P/N 600-8609, a small arms part. This part is made of carbon steel. Heat treating is required. FSN 1005-600-8609. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-177. Bushing, Stock Screw P/N 6019022, a small arms part. This part is machined from carbon steel. FSN 1005-601-6022. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-178. Trigger Assembly, P/N 614-7780, a small arms part. An assembly of a carbon steel part and a low carbon strip steel part. Heat treating is required. FSN 1005-614-7780. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-179. Stock, Right Hand, Wood, P/N 7790349, a small arms part. Made from black walnut. FSN 1005-649-9271. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-180. Stock, Left Hand, Wood, P/N 7790350, a small arms part. Made from black walnut. FSN 1005-649-9272. No security clearance required to obtain USAWECOM APPI.

APPI No. WE-181. Safety Grip, P/N 6501828, a small arms part. A machined part made of carbon steel. Heat treatment is required. FSN 1005-650-1828. No security clearance required to obtain USAWECOM APPI.

make the necessary installation and connect the system plus other vehicle equipment. The mounting system in order to mount the mounting set is intended for use in streams, and salt water buried metallic antitank mines. In accordance with

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Dec. 6, 1966 page 2 No. PSA 4200 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

This item is a reprint of a revision in a previous issue.

APPI No. AP-12 Rev 1. Loaded Item—Cap, Blast- ing, Elec, M6, procured loaded, consists of five (5) components and/or assemblies, plug assy 1.015" X 0.219 O.D. molded around lead wire 145" long. Material, plug, rubber; wire, type 8, AW622, soft, tin coated; alternate, rubber and sulfur plug assembly, with cast sulfur plug. Bridge wire connecting one end of lead wires, resistance 180 OHMS per ft., cup 2.29" X .242" O.D. X .222" I.D., base .020" thick, A1 alloy, sheet, temper 0; spool 4.95" X .416" X .04" wall, slotted one end, box board, convolute, with flour paste between layers; alternate kraft pulp paper unsized .003" thick. Charge cup load with RDX base charge, lead azide intermediate charge and ignition charge. Requires technical staff familiar with pyrotechnics and explosive loading and necessary loading facilities. Difficult to produce to applicable specs. No clearance required to receive APPI. APSA-USAMUCOM.

This item is a reprint of a revision in a previous issue.

APPI No. AP-18 Rev 1 Ammunition Item—XM151 Warhead Metal Parts Assembly, approximately 13.03 inches long by 2.79 inches maximum outside diameter. Consists of three components, nose, 10.40 inches long by 2.79 inches outside diameter at the bourrelet tapers down to 1.68 inches through a 35- inch radius on the ogive beginning 4 inches from the base, material pearlitic malleable iron, grade 60003; base, 3.005 inches long by 2.40 inches outside diameter, cup shaped, material, steel plate or steel bar, hot rolled or pearlitic malleable iron, grade 45010, 50007 or 60003; cap, protector, .932 inches long by 1.844 inches maximum diameter at flange, cup shaped, material, polyethylene. Considered difficult to manufacture. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-19. Ammunition Item—Fuze, rocket XM423 metal parts with Detonator MK59, model O with primer XM94E1 with booster MPTS, 4.035 inches maximum length by 1.75 inch diameter. Consists of five (5) major components: striker, pin body assembly, material, aluminum, alloy, 2024, temper T351, Rod; firing pin body assembly, material, aluminum alloy; device, safety and arming, consists of 33 metal parts such as gears, pinions, springs and rotors; screw sealing disc, material, aluminum, alloy 2024; housing booster, about 1.115 inches long by varying outside dimensions, material, carbon steel bar, hot-rolled. Manufacturing firms bidding this item will require highly competent staff of engineers, metallurgists, chemists and tool design engineers. Item considered difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-51. Ammunition Item—Rocket Motor, 66mm, M54, approximately 1-1/2" diameter by 10" long, aluminum alloy extrusion, six integral fins on nozzle to attach six folding fins. Consists of 20 components shown on (6) ordnance drawings with (11) applicable specifications. Requires machining, drilling, reaming, milling, threading, heat and surface treatment. Competent technical staff required. Item is difficult to produce to government specifications. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-53. Ammunition Item—Warhead, 66mm, rocket, HE, M18, approx 2-5/8" dia x 9" long. Body head approx 5.10" long x 2.568" dia at large end x 1.129" dia. at small end; material, steel strip FC10009, FS1015 to FS1020, cold rolled and annealed, temper No. 5, finish No. 1 or No. 2, Spec QQ-S-640. Ogive approx 5.79" long x 2.598" dia large end x 1.262" small end; material aluminum alloy sheet, 3003-O, ASTM B209, .070" to .027" thick. Liner approx 3.129" L x 2.604" D, conical shaped, .039" wall thickness; material, copper strip, cold rolled, soft annealed, ASTM B152. Body head and ogive shrunk fit and crimped. Insulator approx .33" x .986"; material, molding plastic and molded plastic parts, thermo-setting, type CFG, Spec MIL-M-14, Conduit approx 9.43" L x .098" O.D. and .065" I.D. material, tubing, brass, No. 3 alloy,

ASTM B135. Connector insulator, approx .135" D at large end x .085" I.D. at small end; material, brass strip, composition 1, spring temper, Spec QQ-B-613. Gasket nose, approx .860" I.D. x .125" O.D. x .003" thick; material, gasket, class B, Spec MIL-P-5516, screw insulator No 2 x 1/4" long, type B, style, Spec FF-S-107, conduit soldered to link, shrink fit head body to liner. Requires competent technical staff and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-54. Ammunition Item — Closure for rocket, 66mm, AT, M72, MFD per Specs MIL-A-2550, MIL-STD-8, MIL-STD-9, MIL-STD-10. Material high strength extruded aluminum alloy, 2.94" overall length x 1.84" D at mouth extending .65", receding 60 degrees basic to 1.47" D cylinder, extending 2.29" mouth beveled, modified buttress thread, 1.54" pitch diameter. Inside of cylinder has opening recessed diameter of 1.28" extending .76" with two .065" wide grooves of diameter 1.33". Recessed section also has two holes .10 inch diameter, countersink diametrically opposed to each other. Item is hydrotested. Competent technical staff is required and is difficult to manufacture to applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-55. Ammunition Item — Launcher, rocket, 66mm, M72, 34-1/4" long x approx 4"D consisting of approx 170 components. Inner tube 14" x 2.645" to 2.784" O.D., approx .050" wall; material aluminum alloy extruded, 6061-T6 Spec ASTM B 221. Firing pin housing assembly approx 4" L x .76" D at forward end and 1.14" D at rear end; material aluminum die cast, composition 11, Spec QQ-A-591; outer tube approx 24" L x 2.677" D x .052" wall thickness; material, filament wound epoxy tubing. Requires highly competent technical staff and is extremely difficult to manufacture per applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-62. Ammunition Item — Projectile 8" HE M105 projectile body approximately 32 inch length by 8 inch diameter one piece design assembly consists of three components, body copper, rotating band and base plate. Body is fabricated by hot- forge-heat-treat or hot cup-cold draw process material specification steel ASTM-A-273 or MIL-S-10520. Rotating band copper, base plate approximately .032 inch thick material steel. Assembles to base of shell by resistance welding assembly is phosphate coated and painted. This item is considered very difficult to manufacture in accordance with applicable specifications. No clearance required to receive APPI. AP-USAMUCOM.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-78. Classified. Fuze, Grenade, M217. Confidential clearance required to receive APPI.

This item is a reprint of an APPI published in a previous issue.

APPI No. AP-45. Ammunition Item — Projectile, HEAT-FS, 90mm, M371E1, MPTS, Assy 14.47 inch long x 3.58 inch dia. 13 components. Major components; body, 6.46 inch long x 3.54 inch OD, tapered nose, 3.5 inch ID, tapered wall thickness, knurled rotating band seat, thread both ends, aluminum alloy. Rotating band, rigid polyvinyl. Adapter, aluminum alloy, truncated cone shape, counter-bored and threaded top and bottom. Cone, sheet copper. Spike, steel, 6.7 inch long x 3.88 inch bell-mouth dia. Fin, aluminum alloy, 12.53 inch long x 3.5 inch dia., six webs with T-shaped lugs, internal thread in fin base and external thread opposite end. Other components include conduit, nose cap, insulator and wire lead. Manufacturer requires engineers, metallurgists. Item considered extremely difficult to produce. No clearance required to receive APPI. AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-57. Skid, launching, demolition charge, M3 parts and assembly consists of approximately 296 drawings and various sub-assemblies, skid hull, 135" L x 57-3/8" W x 22-1/4" H, wall thickness 5/8" - 1-13/16" external ribs and side rails, fiberglass cloth outer side, fiberglass mats, woven cloth, impregnating resin thermosetting, polyester, gel cast-thermo setting polyester type, olive drab, finish hull to be waterproof; skid panel cover, varying thickness, 112.9" L x 54" W, same as above, machined aluminum metal parts, 2024-T4 and 6061-T6, plates, tubes, bars extrusions, steel C1020 and 4130. Electrical control system is complicated. Competent staff welding, electrical and mechanical engineers, metallurgists and tool design engineers will be required. Item extremely difficult to produce pre applicable specs and drawings. No clearance required to obtain APPI. AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-58. Fuze, Demo kit 1134 w/detonator, electric, M36A1, complete assy approximately 3-3/8" D x 5-5/8" L and consists of approximately 50 different components, center tube 3-1/2" D x 5-5/8" L, aluminum base alloy, sand casting specification QQ-A-601 or die cast, A360, specification QQ-A-591, container, 3-1/2" OD x 3-1/32" ID x 4-1/4" L counterbored ends, aluminum alloy tube 6061, ASTM-B210; rotor, "U" shape, 2.7" L x 1.27" R x 1/2" thick, aluminum 2024-T4, retainer rotor, 3" D x 3/16" thick w/one inch hole, 2024-T4 aluminum; guide arming, 9/16" D x 1.6" with slots, brass rod ASTM-B16; block terminal lower, 2" L x 5/16" W x .52" H with holes, counterbores and threads, plastic, specification L-P-310, nut, 1.63" D x .20" thick x 1" L aluminum 2024-T4, ASTM-B209; various springs, pins, plates, spacers, nuts, washers, bushings and electrical components; many aluminum parts require anodine treatment, steel components require zinc and cadmium plating, all require salt spray tests, waterproof tests etc. Manufacturers should have a highly competent technical staff for metal working processes. Item extremely difficult to produce to applicable drawings and specifications. No clearance required to obtain APPI. AP-USAMUCOM.

This item of APPI was previously published and is now cancelled.

APPI No. AP-59. Rocket motor M95. MPTS, assembled is approximately 35" L x 12" W. Consists of motor body assy of tubing threaded, of hot rolled steel plate, FS4130, 29" L x 6" O.D. x 5.7" I.D. Adapter boss of 4130 cold steel alloy tack-welded to closed end; manifold complicated chamber, approximately 6" D x 5" L, screws onto motor body, steel QQ-S-681, class 80-50, manifold and body must withstand internal hydrostatic pressure of 3,500 PSI 10 seconds; nozzle 1.89" D x 2.9" L taper bored, threaded OD 1.31" L, steel bar 1117-1137, ASTM A108; front trap assy components 1020 steel fabricated by welding; rear trap three prong spider, threaded, steel QQ-S-681, class 65-35 or bar steel 1030-1040 ASTM-A-107. Requires competent technical staff and is difficult to produce. No clearance required to obtain APPI. AP-USAMUCOM.

APPI No. AP-104. Cap Blasting Special Non-Electric M7. Aluminum alloy cup 2.35" L x .25" OD loaded with 14.5 grain RDX, 37 grains dextrinated lead azide and 1/2 grain lead styphnate. Explosives are compressed into the aluminum cup and capped with an aluminum alloy ferrule. Packed 6 per paper-board carton, one carton in a waterproof bag, 50 bags per fiberboard box and 12 boxes per wooden box. This item requires isolated loading facilities since the explosive used in this item is extremely sensitive and will detonate unless special precautions are used in handling and loading. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. EA-32. Cartridge, 40-MM, Riot Control, CS, E24. The E24, 40-MM, CS riot control cartridge consists primarily of an extruded aluminum alloy barrel housing a molded synthetic rubber body assembly containing CS riot control mixture with quickmatch. It is approximately 9 inches long by 1-1/2 inches in diameter and weighs about 12 ounces.

An extruded aluminum alloy firing cap containing a steel firing pin is attached to the muzzle end of the barrel by pressure-sensitive tape. A plastic launcher adapter is positioned around the primer end of the barrel. The primer end contains a threaded aluminum holder containing a primer and a black powder charge. The charge is held in place by pressure-sensitive tape.

An aluminum alloy sleeve containing the pelletized delay mixture and the first-fire mixture is inserted into the neck of the molded synthetic rubber body and held secure by two steel retaining rings. Sealing compound is applied to the surface of the sleeve and the first-fire mixture to keep all the mixtures within the sleeve dry. A molded polyethylene spacer acting as a gas retaining seal fits over the neck of the body assembly and supports it inside the barrel. A felt pad protects the muzzle end of the body assembly during transportation.

Currently the molded synthetic rubber body is available only from the U. S. Rubber Company. However, a Government mold and rubber formula will be made available for future buys.

No security clearance is required to obtain APPI. EA-USAMUCOM.

APPI No. MI-70. Adapter and Stowage Kit, M274 Vehicle. Adapter hardware for mounting the TOW SYSTEM on the M274 (Mule) Vehicle has existed for some time and considerable testing has been accomplished. The adapter kit consists of the following items: Two saddles clamped across the bed support 5 spare rounds which are held in by quick-release metal bands. The Tripod carried crosswise of the vehicle forward of the spare rounds held by a quick-release metal band and coupling flange. A pallet supporting a pedestal mounting the traverse unit, a coupling ring for the traverse unit, and a support for the electronic unit. No Federal Stock Number assigned. Confidential clearance required to obtain APPI. USAMICOM.

set, multi-purpose, Model SF-15-MD/CIED (FSN 6115-889-1370). The main circulating pump shall be of the positive displacement type and should be mounted either vertically or horizontally and shall have a capacity of not less than 100 gallons per minute. Heater shall be equipped with lifting and tie down attachments. Heater is intended to be used to heat and circulate transfer oil for use with either the continuous mix asphalt plant (1100-150 tph) or 2 asphalt melters (750 gph each). In accordance with MIL-J1-52213, FSN 3895-956-8916. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-106. PAVING MACHINE, BITUMINOUS MATERIAL. Crawler Mounted, Gasoline Engine Driven. Paver shall be self propelled and crawler mounted and shall lay, compact, and finish bituminous concrete from 1/4 inch thick to 6 inches thick at all widths specified herein, on level ground and up and down grades from 0 to 10 percent. The bituminous strip laid shall be laterally and longitudinally smooth within a tolerance of plus or minus 1/8 inch measured with a 12-foot straight edge. The paver shall lay a basic 10-foot width without screen extensions or cutoff shoes. shall be extendable to a paving width of either 12 feet or 14 feet by adding screed extensions, and shall be reducible to an 8-foot width by the use of cutoff shoes. The industrial type gasoline engine, including a fuel tank of a capacity of not less than 8 hours load operation, an electric cranking system, housing, a 40 ampere battery charging generator and an instrument panel, should conform to MIL-E-11275, Group II. Paver should be provided with not less than 8 paving speeds ranging from 9 fpm to 60 fpm, maximum forward and reverse travel speeds shall be not less than 190 fpm. Receiving hopper shall have a capacity of not less than 4-1/2 cu. yd. and shall receive material from dump trucks. Paver shall be provided with a low pressure air type, diesel fuel burner(s). A fuel tank (5 gal capacity), a fuel pump, an air blower, a fuel sediment bowl and fuel lines should be provided with the burner. Six floodlamps and mounting brackets conforming to MIL-L-13071 shall be installed. Paver shall be equipped with lifting and tie down attachments. Paver is intended to receive mixed bituminous material from trucks and to lay the bituminous material for road and airfield construction. In accordance with MIL-P-335, FSN 3895-190-3313. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-107. PRESS. TRACK PIN AND BUSHING. HYDRAULIC. WHEEL MOUNTED. GASOLINE ENGINE DRIVEN: Track press shall consist of a gasoline engine, hydraulic pump, hydraulic cylinder, press table with retractable or stationary jaws, ram cap or tool holder, power tract wrench, winch, track indexer, servicing tools, conveyors, and accessory equipment to form a complete unit which shall operate to remove and install track pins and track bushings on crawler type tractors. Track press shall be spring mounted on a single axle, 2 wheel trailer which shall form an integral part of the track press. The overall dimensions of the track press, complete with running gear and lunette eye, shall not exceed 15 feet in length, 7 1/2 feet in width, and 5 feet 4 inches in height. Total weight, including fuel, lubricating oil, and hydraulic oil but excluding tools and adaptors, shall not exceed 6500 pounds. The track press shall push one pin and one bushing from the same link simultaneously with one stroke of the ram by employing a method of disassembly that will eliminate pushing bushings all the way through the side links. Industrial type gas engine shall be of the air cooled type and shall include a fuel tank which has a capacity for not less than 4 hours operation with means for connecting to an auxiliary fuel supply, a 24 volt electric cranking system, all conforming to MIL-E-11275, Group II. The hydraulic system shall produce a ram force of not less than 125 tons. The track press should be equipped with a hydraulically powered wrench that is operated in either direction of rotation, and shall develop a torque of not less than 700 foot-pounds with a 1 inch square socket drive. A hydraulically operated cable winch shall be provided for pulling the complete tracks over roller beds into position for work. Four sections of roller type conveyors, each not less than 8 feet long shall be furnished. Two 32 candlepower, 24 volt floodlights shall be furnished. Unless otherwise specified, tools and adaptors shall be provided for removing and replacing pins and bushings on tracks of various makes and models of tractors. Track press shall be towed by a prime mover at an average speed of not less than 35 mph on paved roads, including speeds of 40 mph for short periods and at speeds up to 20 mph on unpaved roads, with no swaying or yawing. Lifting and tie down attachments shall be provided. One or more chests constructed in accordance with MIL-C-12044 shall be furnished to carry the operating tools. Track press is intended for use by personnel engaged in the maintenance and repair of crawler type tractors. In accordance with MIL-P-1934, FSN 4940-801-7627. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-108. DISTRIBUTOR. WATER. TANK. 1000 GALLON CAPACITY. TRUCK MOUNTED: Distributor shall consist of a tank, a gasoline engine driven water pump, a spray bar, and the necessary controls, piping, and safety and warning devices. Shall be mounted on a Government furnished military 5 ton, 6 by 6 M61-A2, truck chassis, with personnel heater, and defroster, slave receptacle kit, and without winch in accordance with MIL-T-740. Each tank shall be an electrical steel cylinder and shall be fabricated from hot dipped or electric plated, zinc coated, steel sheets or from steel sheets with all interior surfaces treated with three coats of vinyl resin lacquer. Distributor shall be provided with a pump unit conforming to MIL-P-10360, Type I, size 4. Class A and driven by a gasoline engine conforming to MIL-E-22680. engine shall be furnished complete with all accessories required for operation. The water distributor is primarily intended for use in soil stabilization and soil compaction operations requiring the accurate distribution of water at predetermined rates. Distributors can also be used for transporting or transferring water, for application of water for dust alleviation, for sump pumping, for washing equipment, and as auxiliary fire fighting equipment. In accordance with MIL-D-13487, FSN 3825-275-2622. No security clearance required to obtain APPI, USAMEC.

APPI No. ME-109. TRUCK. LIFT FORK: Diesel. Pneumatic Tire. All Purpose. Rough Terrain, 10,000 Pound Capacity at 24 inch load center. The forklift truck shall be diesel engine driven and operator selected 2 and 4 wheel steer. Truck shall have a center pivot mounted oscillating frame and a hydraulic powered forklift mechanism with a capacity of lifting 10,000 pounds at a 24 inch load center (rated load) to a height of 144 inches. Truck shall be capable of traversing rough terrain, fording water to a depth of 5 feet without kit, and being transported by air and rail. Truck shall perform all required operations without failure, permanent deformation, malfunction, or damage to any components or structural member. When specified, the truck shall be winterized for operation in ambient temperatures to minus 50 degrees F. All parts, assemblies, and components of winterized trucks, including internal seals, cables, belts, and hoses, shall be identical to those used on non-winterized trucks except for winterization items, accessories, and components. Unless otherwise specified, an industrial type diesel engine shall be furnished complete with all accessories and shall conform to MIL-E-11276. The truck shall be provided with lifting and tie down attachments. The truck is intended for use as a materials handling, forklift truck with a capability of unloading, transporting, and loading boxes, containers, and palletized loads up to 10,000 pounds. The mobility of the truck with and without payload is intended to cover working areas where high flotation and traction characteristics are required. The truck is also intended to operate and be compatible with hydraulic crane and snowplow attachments. In accordance with MIL-T-21864, FSN 3930-073-8750. No security clearance required to obtain APPI, USAMEC.

APPI No. WE-208. Aiming Circle. An optical instrument consisting of a telescope mounted on a mechanical base which is used to find azimuth and latitude of celestial bodies and is used to measure the azimuth of a target. This complex fire control instrument is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-209. Binocular Infra-red M18. A hand-held infra-red instrument designed for night use. It is similar in appearance to a conventional binocular but contains a battery operated, high-voltage power source, an image detector tube, and complex optical components. Manufacturers planning to bid on this item should be skilled in electronics and optics as this item is considered most difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-120. Periscope, Battery Commander, M43. A binocular theodolite type instrument with a complex optical system including lenses, prisms, reticles, and mirrors. Because of the complexity of this item a high degree of accuracy is required in assembly. Manufacturers planning to bid on this item should be skilled in electronics and optics as this item is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-211. Radar Chronograph, M36. A device to measure the speed of projectiles in flight. It consists of a transmitter which beams waves at a projectile, a receiver which picks up the reflected waves, and a counting device which measures the difference between the frequency of the waves (Doppler Shift) and calculates the projectile speed and displays the result in meters per second. The transmitter uses tubes, all other electronics are solid state. This item is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. WE-212. Range Finder, XM23E2. A device for measuring the range to targets. It consists of a power source and a ruby laser which emits a burst of radiation and a counter device that measures radiation travel time and converts this data to distance. Components include a tuned circuit, a ruby laser, a mirror system, solid state electronics, an internal power source and counter device. This item is most difficult to produce. No security clearance required to obtain this APPI.

APPI No. WE-213. Telescope, Observation, M49. An erect-image optical instrument of the prism-offset type. This instrument uses two Parro type prisms and magnifying lenses in the eyepiece and a focusing sleeve. It has no reticle, is fixed at 20x magnification and has a view field of 2 degrees, 12 minutes. This instrument is considered moderately difficult to manufacture. No security clearance is required to receive the APPI.

APPI No. WE-214. Computer, Gun Direction M18. A digital computer designed to operate within temperature ranges of -40 degrees F to +125 degrees F and to withstand shock and vibration. Components include a magnetic disc memory unit of extremely close tolerances, 106 printed circuit power supply chassis, Keyboard, display panel, read & write heads, transistors, diodes and so forth. Manufacture of this item requires clean room facilities and highly complex test equipment. This item is extremely difficult to produce. No security clearance is required to get this APPI.

APPI No. WE-215. Reproducer, Signal Data, AN/GSQ-64. Memory Logic Unit, a photo-electric punched tape reader, designed to operate under severe conditions of temperature, shock and humidity. Components consist of tape drive, printed circuit boards, solid state electronics etc. This item is considered difficult to produce. No security clearance is required to obtain this APPI.

APPI No. WE-216. Test Set, Computer Logic Unit AN/GSM-70 (FALT) A testing device designed to operate under severe conditions of temperature, shock and humidity. Components include 53 printed circuit boards, solid state electronics, switches set. This item is considered most difficult to produce. No security clearance required to obtain this APPI.

APPI No. WE-217. Rod Traversing, Handwheel, P/N 5593165. For carriage HOW 105 MM. M101, M101A1. Approximately 22 3/8" L x 1.185" D. Each end has screw threads. Machined from alloy steel to close tolerances. Not considered difficult to manufacture. FSN 1015-559-3165-C021. No security clearance required to obtain this APPI.

APPI No. WE-218. A Pin, Trail Hinge, P/N 6158096 for Carriage, HOW 105 MM. M101, M101A1. Approximately 11 3/8" L x 2 3/4" at largest diameter. This Pin has threads at one end. Machined to moderate tolerances from steel. Heat treated before machining. Not considered difficult to manufacture. No security clearance required to obtain this APPI. FSN 1015-615-8096.

APPI No. WE-219. Bushing, Top Carriage, P/N 6167152. For carriage, HOW 105 MM. M101, M101A1. This bushing is approximately 2.8" W x 5.5" diameter at largest diameter. Made from copper base alloy casting. Not considered difficult to manufacture. FSN 1015-616-7152. No security clearance is required to get this APPI.

APPI No. WE-220. Extractor, Breech Mechanism Assy. PN 7305016. For light HOW Towed 105 MM. M101, M101A1. On Extractor used in a howitzer breech mechanism to extract spent shell casings. It is approximately 6.75" L x 1.9" H x 2.5" W. Machined to medium tolerances from alloy steel. Magnetic particle inspection required. Case carbonized. Not considered difficult to manufacture. FSN 1015-719-8031. No security clearance required to obtain this APPI.

APPI No. WE-221. Mechanism, Assembly, Elevating M3 Mount. P/N 5574621. This item is used on the M3 Machine Cal 30 Tripod Mount. It consists of 4 sub-assemblies and 27 other separate components. Procured as a complete assembly. Considered moderately difficult to manufacture. FSN 1005-557-4621. No security clearance required to obtain this APPI.

APPI No. WE-222. Magazine, Assembly 30 Round. This magazine applies to the Cal 30 Carbine. Components are tube, base, spring, and follower. The magazine carries 30 rounds of Cal 30 ammunition. This item is not considered difficult to manufacture. FSN 1005-716-2176. No security clearance required to obtain this APPI.

APPI No. WE-223. Bolt Assy. Breech, P/N 11010357 for 7.62 MM Machine Gun. M60 and M60C. This assembly consists of two (2) sub-assemblies and eleven (11) other components. The item is procured as an assembly. Machined to close tolerances from steel forgings. Considered moderately difficult to manufacture. FSN 1005-763-1863-A101. No security clearance required to obtain this APPI.

APPI No. WE-124. Target, Simulatte. P/N 42419. Approximate 19 1/2" wide x 40" high. A target simulating small arms target practice. Made of plastic and metal. Standard FSN 6920-7410. No clearance required to obtain this APPI.

APPI No. WE-225. M30 Target Holding Mechanism. P/N 74131. A mechanism to support a target. Consists of a target assembly, junction box, assembly, mechanism box assembly, and a control box assembly. This is a target simulating device to manufacture. FSN 6920-7410. No clearance required to obtain this APPI.

APPI No. WE-226. Case, Cleaning. P/N 7267754. A case for holding the cleaning and cleaning brush for the M1 and M14 Rifles. Approximate 19 1/2" x 4" x 4". A spacer is supplied with the case. Made of fabric or vinyl coated fabric. Not considered difficult to manufacture. FSN 1005-7410. No clearance required to obtain this APPI.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Jan. 3, 1967 page 2 No. PSA 3966 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI ME-75. Guidance Set for Launcher, TOW Weapon System. The guidance set provides facilities for battery installation, and contains the electronic circuits necessary to develop system operating and control signals. An additional function is to receive and convert information developed by the main link signals. The guidance set consists, primarily, of a chassis assembly, power supply, and set printed circuit cards which are installed in the chassis assembly. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to receive APPI. USAMUCOM.

APPI ME-76. Container, TOW Weapon System. The TOW Missile container is a fiberglass/epoxy container that provides environmental protection for the missile during storage and handling. It incorporates seals that are not broken until the moment to firing, allowing the missile to be unloaded from the launcher without loss of its environmental protection. Mechanical alignment and electrical connection to the launcher are provided automatically as the container is loaded and locked into the launch tube. When loaded, the container serves as the launch end of the launch tube. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to receive APPI. USAMUCOM.

APPI ME-77. Traversing Unit for Launcher, TOW Weapon System. The traversing unit is an electromechanical assembly which is attached to the tripod during ground employment. It provides mechanical support for the launch tube, sight/sensor, and missile as well as the necessary electrical connections between the launcher and missile. The traversing unit consists of a trunnion and bridge clamp, vision damper, rate tachometer generators, and a trigger for actuating the electrical firing sequence. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to receive APPI. USAMUCOM.

APPI ME-78. Sight/Sensor Unit of Launcher, TOW Weapon System. The sight/sensor compares the instantaneous line of sight from the launcher to the target with the instantaneous line of sight to the target. This comparison establishes the amount of correction required by the missile at any moment during the flight. The sight/sensor consists of an optical sight, an infrared sensor, and associated electronic circuits including a preamplifier, bore-sight circuit, and a reference resolver. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft Co., Culver City, Calif. Confidential clearance required to receive APPI. USAMUCOM.

APPI No. AT-76R1. Wheel, Solid Rubber Tire, Road M113. This ORD 8763350 road wheel was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-679-7973. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-76R2. Sprocket, Drive M48-60. This ORD 8671597 sprocket was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-318-0229. No clearance required to obtain APPI. USATAC.

APPI No. AT-76R3. Track Shoe Section XM501 Series. This ORD 10892811 track shoe section was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-730-7343. No clearance required to obtain APPI. USA-TAC.

APPI No. AT-114. Paulin Assembly. The ORD 7707288 paulin assembly is used on the M37 and M37B1 3/4 cargo truck to protect personnel and cargo from inclement weather and unfavorable conditions during vehicle operation. This paulin assembly consists of following components: (a) #10 processed duck (b) grommets (c) tie-down ropes (d) strap and buckle assemblies (e) rivets (f) sewing thread. SNL APP G741. FSN 2540-770-7288. No clearance required to obtain APPI. USATAC.

APPI No. AT-115. Tire Pneumatic 16.00X24, 12 Ply Lug Type, Nylon, Grader DC. The MS-35390-43 pneumatic tire is a major component of the traction system for earth moving equipment. This tire assembly has following basic characteristics: (a) ply rating-12 (b) type classification-Grader DC (c) tread type-DIR TRTN (d) cord material-nylon (e) max rated load-7900 lbs (f) inflation pressure-30 PSI (g) app width-18.2 in (h) app dia-57.5 in. Specification Fed Spec ZZ-T-381. SNL APP MULTIPLE. FSN 2610-678-1363. No clearance required to obtain APPI. USATAC.

APPI No. AT-116. Battery, Dry Charged, 12 Volt Type 6TN. This MS-35000-3 battery assembly is used for starting, lighting and ignition purposes for wheeled and tracked vehicles. This assembly has following characteristics: (a) automotive series (b) 12-volts (c) 6-cell (d) 100 amp-hr. rating. Assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative rectors (g) cover (h) vent plugs (i) terminal posts (j) battery hardware. SNL APP MULTIPLE. FSN 6140-057-2554. No clearance required to obtain APPI. USATAC.

APPI No. AT-117. Regulator, Engine, Generator Control Assembly. The MS-51356-1 regulator assembly is a major component of the electrical system for military vehicles. This assembly has following basic characteristics: Type II (vibrating); Grade A (waterproof); for use on negative ground systems only; overall dimensions 6-1/2 x 9-7/8 inches; voltage-28 volts; amperage-25 amps DC. based on performance type specification. SNL APP-MULTIPLE. FSN 2920-335-4677. No clearance required to obtain APPI. USATAC.

APPI No. AT-118. Windshield Assembly, Flat, Vehicular. The ORD 7005417 windshield assembly is a major component of the cab assembly for wheeled vehicles. This windshield assembly consists of following components: (a) safety glass (b) steel frame (c) weatherstrip (d) filter (e) cross piece Assy with channel type hinge (f) latch (g) special side brackets (h) common hardware. SNL APP-MULTIPLE. FSN 2510-700-5417. No clearance required to obtain APPI. USATAC.

APPI No. AT-119. Switch Electrical Fuel Interlock. The ORD 10874979 switch assembly is an oil pressure activated diaphragm contact control device for military equipment. This switch assembly has following characteristics: (a) operating pressure-2.5 to 5.5 PSI (b) test pressure-150 PSI (No. 10 w oil) for 5 minutes without change in operating pressure or leakage (c) contact continuous load-2.5 amps at 28 volts inductive-5.0 amps at 28 volts resistive. SNL APP-MULTIPLE. FSN 5930-771-81190. No clearance required to obtain APPI. USATAC.

APPI No. AV-133. Cancellation of APPI. Previously published as AV-133 in 8 November 1966 issue of Commerce Business Daily, this APPI is hereby cancelled on request of the requiring activity of this Command. AV-133, Filter, Fluid Pressure. USAVCOM.

APPI No. AV-151. Trunnion, Left Hand. Steel casting, corrosion resistant, AMS-5355. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-060-161-1. FSN 2995-731-7957. No clearance required to receive APPI. USAVCOM.

APPI No. AV-152. Cable Assembly, Tail Rotor. 7 X 19 corrosion resistant steel, 182 in. long X 1/8 in. dia. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-001-792-9. FSN 1560-771-2512. No clearance required to receive APPI. USAVCOM.

APPI No. AV-153. Lever Assembly, Throttle Control. Aluminum casting approximately 4 in. long. Appl., UH-1 Aft. In accordance with Procurement

Package No. 204-060-743. FSN 1560-739-4577. No clearance required to receive APPI. USAVCOM.

APPI No. AV-154. Repair Kit, Plexiglass. Parts make-up data includes: resin, acrylic, spatula, eye dropper, masking tape, tin foil. FSN 1560-695-4909. No clearance required to receive APPI. USAVCOM.

APPI No. AV-155. Scale, Aircraft Weighing. 150,000 Lb. max. cap., portable with carrying case, electrically operated, AC, 110V, 60 cycle, single phase, DC, 22V to 28V, indicator, 5100 lb., dial graduations in 10 lb. increments, accessories per specifications, MIL-W-7327, Type No. C-1. FSN 6670-999-1195. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-156. Regulator, Oxygen, Dither Demand for Fixed Position. Automatic pressure breathing in accordance with MIL-R-25916. Appl., OV-1 Aft. FSN 1660-567-2921. No clearance required to receive APPI. USAVCOM.

APPI No. AV-157. Cage, Liquid Quantity. Appl., UH-1 Aft. Identification by these part numbers only: Simmonds Precision Products P/N 393004-01490. Bell Helicopter P/N 205-061-633-7. FSN 6680-868-9811. No clearance required to receive APPI. USAVCOM.

APPI No. AV-158. Brake Assembly, Magnetic. Appl., UH-1 Aft. Identification by these part numbers only: Bell Helicopter P/N 204-001-376. MEM-COR, Inc., P/N MP-498-3. Airborne Accessories P/N R460M15-3. FSN 1680-909-8716. No clearance required to receive APPI. USAVCOM.

APPI No. AV-159. Tank, Hydraulic Fluid. Appl., CH-47 Aft. Identification by these part numbers only: Vertol (Boeing) P/N 114HS104-2. Adel Division, General Metals Corp P/N 416220-2. FSN 1650-050-8349. No clearance required to receive APPI. USAVCOM.

APPI No. AV-160. Harness, Aircraft Safety Shoulder. Designed for one person, 1-3/4 in. wide webbing adjustable, 48 in. max. adjustable length, steel buckle. In accordance with MIL-E-5364 and Air Force Drawing 50D3770. Procurement will be 100% small business set-aside. FSN 1680-485-3047. No clearance required to obtain APPI. USAVCOM.

APPI No. AV-161. Switch Assembly, Low Fuel Level Warning. Assembly must be effected utilizing Revere Corp Switch F-8300-14 in accordance with Bell Helicopter Co. procedure. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-060-654-5. FSN 2925-969-9158. No clearance required to receive APPI. USAVCOM.

APPI No. 162. Fuel and Oil Kit, Filter Element. Appl., UH-1 Aft. In accordance with Procurement Package No. 204-2490-1. FSN 2945-019-0280. No clearance required to receive APPI. USAVCOM.

APPI No. AP-11R-2. Simulator, Artillery Gunflash. M110 equipped with Squibs, electric, S72 "procured loaded" weighs 69 lbs per box of 24, and is comprised of the following major parts: Container, Outer is hollow black cylinder 7.81" length x 1.88" OD fabricated of plastic. The top end has 1/2" hole threaded to receive filling plug. The bottom end of outer container is attached to a shoulder at bottom end of inner container. Filling Plug is of red plastic material slotted to receive a screw driver and threaded to fit the hole in the top of outer container. Container, Inner is hollow cylinder 6-7/8" length, 1-1/4" outside diameter fabricated of black plastic. The bottom has an external flange which forms a seat for the outer container and an internal thread to receive adapter holder. Pyrotechnic Charge is contained in container inner, consists of 80 grams of pyrotechnic composition containing magnesium powder and oxidizer. Adapter holder is a black plastic externally threaded plug with a well in the center to receive the electric squib. This well projects into a paper former which is recessed into the pyrotechnic charge. The simulator is packaged in fibre container 24 per box with commercial Squib S72. Manufacturing firms bidding on this item will require facilities to process and load pyrotechnics and a technical staff familiar with pyrotechnic specifications and processes. This item is considered somewhat difficult to produce according to Government specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-15R-2. Projectile, 90mm, TP-T, M353, MPTS, 14.2" max L x 3.537" OD, (5) components, Body, approx 10.15" L x 3.537" OD, one piece design, threaded nose section, rotating band and crimping grooves, base section 7/8" thd x 1.05" deep center hole, mat, st, HR carbon bars, excluding Bessemer Stock. Rotating Band, blank 3.55" OD x 1.255" L x .21" wall thickness, mat, gilding metal, Class B, annealed, Windshield, cone shape, 6.928" L x 3.51" OD at base, base has 2-3/4" ID thd, varying wall thickness, mat, A1 alloy die casting, Comp A380, Plug and Disc Assy, (2) components, Plug, 7/8" OD thd x 3/4" L, 5/16" bore, with 44" counterbore, plus (2) 7/64" x 1/8" deep holes in base, mat, A1 alloy, 2024, T4, finish, anodize film, disc, .435" OD x .004" thick, mat, brass, comp 2. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers. This projectile is considered very difficult to produce to applicable specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-16R-2. Simulator, Projectile, GB, M115A2 is approx 7.13" L x 1-15/16" D "Procured loaded" consists of (15) Components. Tube, Inner 4.87" L x 1.48 ID x 1.6 OD matl. Kraft wrapping paper, 205 lb. Grade A, convolute wound with adhesive dextrin between layers. Tube, outer 3.5 L x 1.60" ID x .070 wall thickness. Tube, spacer 1.60" OD x .51" L x 1.48, ID, Tube whistle .51 OD x 2.5 L x .31" ID. Sleeve .63 OD x .51 ID x .82 long, matl and fabrication for all components thus far is same as Tube Inner. Disc 1.48 D x 1.20" thick, matl. Board, Binders, Disc Bottom .50" OD x .061 thick with .12 hole in center matl chipboard class 2 Spec UU-C-282, Disc, closing .50" OD matl Kraftpaper, Washer .50" OD x .061" thick x .30" ID matl chipboard, Clip, safety 1.25 L, half ring one end and 90 degree angle other end, Matl wire Steel spring .036" D. Sleeve .42" OD x .34" ID x 2" L matl. Kraft paper, Ferrule .26 D x .575 L x .008 wall thickness, matl steel strip, Disc 1.6" OD x .120" thick with hole in center, Matl. Board, Binders, Cup Igniter "Cup Shape" .25" D x .22" L x .104 wall thickness matl gilding metal strip. Tube .34" OD x .25" ID x 2.25" L, matl Kraft paper, Convolute wound or spiral wound with Dextrin adhesive between layers. Cap "Cup Shape" .54" D x .43" ID with (3) small holes. Matl, Polystyrene, Plastic, clear. Card Pull 8" L matl nylon thread, Whistle loading assm, approx. 2 Grams 28% Sodium Sulfate and 69% Potassium Perchlorate and 3% red gum. Loading assm, approx 2.2 oz. Photoflash powder type 1 Class A Spec PA-PD-267 assm. This item is considered somewhat difficult to produce to meet applicable specifications. No clearance required to receive APPI. USAMUCOM.

APP No. AP-21R-2. Warhead, 2.75" Rocket, Smoke, WP, E13, MPTS, Assy is approx 13.03" L x 2.79" max D, consists of three components, Body, 9.69" L x 2.79" max OD nosing down to 2.065", through a .35" radius, 2.25" ID closes to 1.681", through a .32.5" radius, material, steel tubing, seamless, condition CDSR, 1020, Specification QQ-T-830, Base, 3.00" L x 2.4" max OD, 1.92" ID, cup shaped, 2.4-6-29 degree stub Acme-36 modified thread on .167 of the OD, material, steel bar, hot rolled, C1018. Specification S-633. Adapter, 1.62" L x 2.06" max OD, .79" bore with a 1.455 counterbore and 1-7/16-16UN-2B thread on the ID material, steel bar, carbon, cold finished, C1018, C1020, C1025. C1117-C1141. Specification QQ-S-633. Base and Adapter are silver brazed to Body. The assembly must withstand a hydrostatic pressure of 5000 pounds per square inch for a minimum of 5 seconds and air pressure test of 100 pounds per square inch for a minimum of 15 seconds. Item considered difficult to manufacture. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-27R-1. Fin Assembly, M149 approximately 3.19" D x 7.35" L and consists of 3 component parts. Housing, Cartridge 1.693" major D tapered to .87" minor D. Overall length 5.88". The small end is machined to .625" D 1.15" L to a shoulder. The .625" D is threaded .92" L 18 thread per inch. The large end has a two step counterbore with twenty .196" D flash holes machined through the sidewall into .80" D counterbore. Material, aluminum alloy, rod, extruded. Alternate, Aluminum alloy, die forging. "Fin" one piece design 3.19" D x 2.58" L with 6 fins inclosed by an integral rim. The bore D is .625" and threaded and counter-bored at both ends. Material, aluminum alloy, die casting, or aluminum alloy, rod, extruded. "Holder Increment (Ready)" 1.24" D x .65" bored x .035" thick. Stamping with 8 eyes equally spaced. Material, carbon, steel strip, cold rolled, temper No. 4. Protective finish, cadmium or zinc plate. The Fin Assembly is considered somewhat difficult to produce in accordance with specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-46R-2. Fuze, Proximity, M532. The complete fuze weighs 1.3 pounds, is six inches long and the length of its intrusion is 2.21 inches. The data package for this item consists of classified and unclassified drawings and specifications. The maximum classification is secret. The M532 comprises a housing (body), an antenna, an oscillator, an amplifier, a battery, an arming mechanism, a booster, a PD trembler switch and a switch to deactivate the proximity device. The visible parts of the M532 are a plastic nose cap mounted in an aluminum ring, which is attached to the aluminum fuze base and a steel cup (extending beyond the base) which contains the S&A device and booster. The base of the fuze screws into the nose cap of the fuze. The electronic head consists of the oscillator and amplifier. The trembler switch is in the subassembly with the amplifier. The battery plugs into the base of the electronic head. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-67R-2. Projectile, 81mm, M374 w/Fuze M524A5. Body Assembly, 1.403" max L x 3.184" OD, consists of 14 component parts. Body, 9.50" L x 3.182" D near center, tapered to 2.38" D at front end and 1.835" at rear end with varying thickness from .185" to .25" nose thread 2.00 12NS-1B, end bore to 1.62" for brazed in adapter material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 50,000 PSI minimum, .1 percent off-set,

elongation - 7 percent minimum. Adapter, Base, 1.26" L x 1.800" max D, one end threaded 1-1/8-18NEF-2A, material, carbon steel, special bar quality, ASTM Specification A107, or A108 applies, alternate material, pearlitic malleable iron, Grade 50007, Specification MIL-C-46971, physical properties, yield strength 40,000 PSI minimum, .1 percent off-set, 10 percent minimum elongation, mechanical property requirements of MIL-C-46971 apply for alternate material, Cover, base, 1.02" D x .0209" thick, material, cold-rolled carbon steel strip, Temper No. 4, ASTM Spec A109 applies, Adapter, base is brazed 360 degrees to withstand 5000 PSI hydrostatic test and 150 lb. PSI air test. Body requires 100 percent ultrasonic inspection and magnaglo. Band, Obturating, 3.500" D x .187" thick, material, pipe, plastic, Specification PA-PD-2521, Body assembly prior to assembly of band, obturating requires phosphate coat and paint. Manufacturing firms bidding this item will require a highly competent staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required for mass production of this item. This item is considered very difficult to produce to applicable specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-90R-1. Simulator, Booby Trap Flash, M117. Loaded. Consists of approximately 18 components. Complete assembly is approximately 4" long x 1" D, fabricated from steel strip, FS1009, high carbon steel, bright music wire, Kraft paper, 60 lbs, grade B, shipboard, class 2, jute paper commercial, felt number 10, glue, quickmatch, adhesive tape, type II, grade B and charge composition consisting of 50 percent potassium Perchlorate grade I, 33 percent antimony sulfide and 17 percent magnesium, type I, grade A, granulation number 12. Firms bidding on this item should have a technical staff familiar with pyrotechnics manufacturing processes. This item is considered somewhat difficult to produce in accordance with Government specifications. No clearance required to receive APPI. USAMUCOM.

APPI No. AP-105. Fuze, Time, M65A1 consists of 16 parts as follows body, 1.61" L x 2.32" OD with molded and machined cavities, slots, and threads, material, zinc, base alloy, die casting composition AG40A, ASTM B86, Head, 1.395" L x 2.280" OD with molded or machined cavities and undercuts, material, zinc, base alloy, die casting composition AG40A, ASTM B86, Ring, Time Train, 2.30" x .380" thick with forged and machined groove and 1.001" D center hole, material, brass, forging, free machining, Spec MIL-B-13351, Ring, Expelling Charge Retainer, 1.686" D x .19" thick with 1.30" D center hole and 1.6876-20UNS-1A thread on OD, material, steel, bar, carbon, 1117 or 12L14 (lead), cold finish, ASTM A108, Striker, .68" L x .438" D with machined point and two drill cross holes, material, steel, bar, carbon, 1117 or 12L14 (lead), cold finish, ASTM A108, Disc, Expelling Charge Retainer 1.63" D x .016" thick with seven (7) .15" holes, material, steel, sheet, zinc coat (galvanized), ASTM A93, Cover, Expelling Charge Retainer, 1.68" D x .006" thick disc, material, cloth, chambric, varnished, Spec MIL-C-20610, Washer, Body, 2.18" D x .030" thick with .646" D hole, material, plastic, polyethylene sheet, type 1, grade I, Cover Relay Charge, .31" D x .002" thick disc, material, paper, onlonskin, Spec MIL-P-157, Pin, .550" L x .150" D, material, steel, bar, carbon 1117 or 12L14 (lead), cold finish, ASTM A108, Washer, Vent Crimping Support, .218" OD x .016" thick with .150" center holes, material, steel, sheet, zinc coated (galvanized), ASTM B36, Disc Vent Closing, .218" D x .003" thick, material, plastic polyethylene sheet, type 1, grade 1, Spec L-P-378, Cover, Groove, 2.20" D x .002" thick with 1.10" hole, material, paper, onlonskin, Spec MIL-P-157, Wire, Shear, 2.70" L x .032 D, material, wire copper, soft or annealed, ASTM B3, No clearance required to receive APPI. USAMUCOM.

APPI No. AP-106. Cartridge, Ignition, M5A1. This cartridge essentially is a cylindrical paper container for a propelling charge. The body consists of an outer tube and a shorter inner tube, both made from layers of paraffined cartridge paper. A chipboard washer, with a paper tube cemented to a center hole, and thin paper disks cemented to one face of the washer and over the other end of the tube, is assembled into one end of the body. The small tube extending into the body. The outer tube of the body is crimped inward to secure the washed tube assembly in place. A charge of M9 Propellant is loaded into the and a chipboard closing disk is crimped into the remaining open end of the body. A competent technical staff is required. This item is not considered difficult to manufacture. No clearance required to receive APPI. USAMUCOM.

APPI No. EA-33. CBU-19/A Cluster Bomb Unit. The CBU-19A cluster bomb unit is used for the aerial delivery of CS riot control agent on selected targets. The CBU-19A bomb unit is approximately 62.5 inches long, 12 inches high, 10 inches wide and weighs 130 pounds. It consists of a hinged strong-back assembly, two suspension lugs and two E158 50-pound riot control CS canister clusters.

Strongback Assembly. The strongback consists of a rectangular extruded aluminum bar with hinges on each side, two spring-loaded aluminum end clamps, a steel tie rod, and an aluminum sway brace pad assembly. The strongback assembly is placed over two E158 50-pound riot control CS canister clusters and ties the two clusters together by means of the spring-loaded end clamps, the tie rod and an explosive bolt assembly.

Explosive Bolt Assembly. The explosive bolt assembly consists of a steel body and an explosive train. During assembly of the CBU-19/A cluster bomb unit an aluminum collar is placed over the tie rod and the explosive bolt is screwed onto the end of the tie rod. The collar and explosive bolt are locked by a locking wire to the end clamp. The electrical connector from the explosive bolt is secured to a metal clip mounted on the end clamp.

Suspension Lugs. Two steel suspension lugs screw into the strongback of the CBU-19/A cluster bomb unit for attachment to the aircraft.

E158 Riot Control CS Canister Cluster. Each E158 50-pound riot control CS canister cluster consists of eight molded plastic modules heat sealed together, a fuze bar assembly and a fuze assembly. Each module contains 33 E49 riot control CS canisters, a plastic pusher plate and a plastic bag containing black powder. No clearance required to receive this APPI. USAMUCOM.

APPI No. EA-34. E158 50-pound Tactical CS Canister Cluster. The E158 50-pound tactical CS canister cluster is used for the aerial delivery of CS riot control agent on selected targets. The E158 canister cluster consists of eight modules heat sealed together, a fuze bar assembly, a fuze assembly and an E63R1 mechanical time fuze initiator.

Module. Each module is made of molded plastic and contains 33 E49 riot control CS canisters. The fuze retainer of the E49 CS canister fits into holes in a plastic pusher plate which sits on a group of foam pads in which is inclosed a plastic bag containing black powder. Fuzes lead from the black powder bag to the fuze bar assembly.

The E49 Riot Control CS Canister. The E49 canister consists of two main assemblies: the aluminum canister into which the CS pyrotechnic mixture has been pressed, and a fuze assembly. The rubber disc in the fuze assembly has a small off-center hole with an aluminum stiffener ring on one side and Mylar sheet on the other. The fuze is retained by being press-fit into the orifice in the rubber disc. The fuze assembly consists of an aluminum fuze retainer which is staked to the fuze, a fuze ignition mix, a 5- to 6-second fuze, a polyethylene ignition tube, and gelatin capsule containing the ignition compound.

Fuze Bar Assembly. The fuze bar assembly consists of a molded plastic fuze bar attached to the eight clustered modules. The fuze bar contains delay fuzes which lead from the modules to two aluminum junction blocks. The fuze bar is covered with an aluminum fuze bar cover. Aluminum fuze housing in the fuze bar is provided.

Fuze. The fuze consists of a slide-release pin, a safety cap, a safety wire, a steel firing pin, and M55 detonator assembled in a spring-loaded slide, and two X310A primers, and is housed in the fuze housing of the fuze bar assembly.

E63R1 Mechanical Time Fuze Initiator. The E63R1 mechanical time fuze initiator consists of a cylindrical aluminum body containing a clock mechanism and a spring-loaded pin. The initiator has a threaded hole in the base and a safety plug at the top. A lockwire secures a safety ring and pin to the safety plug. The pin of the safety ring and pin holds a spring-loaded arming pin in a depressed position. A locking screw, a time ring, and an altitude set line are incorporated in the initiator to permit various altitude settings. Each initiator is provided with an arming wire. No clearance required to receive APPI. USAMUCOM.

APPI No. ME-110. Loader, Scoop Type: Pneumatic Tired, Four Wheel Drive, Diesel Engine Loader shall be diesel engine driven, air droppable, 5,000 lb. rated load capacity, pneumatic tired, 4 wheels, with 4 drive wheels and 2 steerable wheels, and shall be equipped with a general purpose bucket hydraulically operated and front mounted, and such other attachments as specified. Loader shall withstand without damage transportation by truck and trailer over unimproved terrain, emergency towing by another vehicle, and operation under adverse weather conditions. Loader with attachments shall negotiate 15-degree side slopes and 30-degree longitudinal slopes without any wheel of the loader losing contact with the ground. Loader shall be capable of convoy operation and of fresh and salt water fording without damage or leakage of water into fuel, hydraulic, and lubricant reservoirs and housings containing lubricants. Components, particularly of the electrical, fuel, and exhaust systems, shall resist any harmful effects of dust, water (salt or fresh), corrosion, and fungi. To the maximum practicable extent, materials and special treatments shall be utilized to prevent rust and corrosion. All major assemblies and installed attachments shall be accessible for maintenance,

repair and replacement, except that the transmission may be replaced as an integral unit with the torque converter. An industrial type diesel engine including a fuel tank of sufficient capacity for 8 hours of operation shall conform to Specification MIL-E-11276. Service brakes and a fully mechanical parking brake shall be provided. Service brakes shall be provided on all 4 wheels, shall be foot controlled, and unless otherwise specified shall be air actuated. Brakes shall safely bring the loader, equipped with the empty bucket attachment, to a complete stop within 70 feet from a speed of 20 mph. Loader with dead engine shall be towable at speeds of to 4 mph. Loader shall be provided with a removable metal fender for each wheel to prevent mud, water, and stones from hitting the operator. A 24 volt electrical system shall be provided. When specified, loader shall be winterized. Lifting and tie-down attachments shall be provided. Loader is intended primarily for use in bucket loader operations, long-term pile work, excavating, and fork lift general utility work and as an expedient replacement for small scrapers and shovels. In accordance with MIL-E-11276, FSN 1005-620-4943. No security clearance required to obtain APPI, USAECOM.

APPI No. ME-111. Drier Mixer, Bituminous Concrete Material, Wheel Mounted. Drier mixer shall consist essentially of a gasoline engine, charging hopper, blower, heating pump, bitumen storage tank, burner, heating system, and pugmill mounted on a pneumatic road cart-type trailer. Necessary controls, drives, and accessories shall be provided. Drier mixer shall have an overall width of not more than 72 inches, shall be towable by a truck on gravel roads and paved highways at speeds up to 35 mph without damage to or permanent deformation of components or parts, bottoming of the suspension, or loosening of components. Charging hopper shall have a capacity of not less than 3 cubic feet. A bitumen storage tank shall be provided as an integral part of the drier mixer and shall have a minimum capacity of 200 gallons. Heating system shall have a heating capacity that will raise the temperature of the contents of the storage tank from 20° F. to 100° F. in not less than 60 minutes. Blower heating system shall consist essentially of a blower, combustion chamber, fuel pump, fuel tank, exhaust stack, and one or more low pressure burners. Minimum output capacity of the drier mixer for hot bituminous mixes shall be 3 to 5 tph, for cold bituminous mixes 10 tph, for low slump portland cement concrete 5 tph. The temperature of the aggregate at the end of the drying cycle or at drier discharge shall be not more than 300° F. and not less than 250° F. Accessories shall be furnished to facilitate operation of the drier mixer and shall include a burner lighting tank and an engine driven bitumen metering pump. Drier mixer shall be powered by an industrial type gasoline engine conforming to MIL-E-11275, Group II. Engine shall be furnished complete with accessories. Two wheel, pneumatic road military type trailers shall be furnished. A 24 volt vehicular electrical system shall be provided. Lifting and tie-down attachments shall be provided. Drier mixer is towed by standard military 2 1/2 ton truck, 6 x 6 M-41 series. Drier mixer used in the maintenance and repair of road and airfield pavements. In accordance with MIL-D-18454, FSN 1005-222-7764. No security clearance required to obtain APPI, USAECOM.

APPI No. ME-112. Mixing Plant, Asphalt; Continuous Mix, Diesel Engine Driven. Portable, 100-150 TPH capacity. Portable asphalt mixing plant shall consist of all units, diesel engines, and other components except fuel storage tank, hot oil heater, asphalt meters, asphalt storage tanks, and asphalt storage transfer pump, required to result in a complete plant for continuously producing high type asphalt concrete mixes at a capacity of 100 to 150 tons per hour. Plant shall include but not be limited to the following units: Cold aggregate feeder of hopper and frame construction. Cold aggregate elevator of the centrifugal discharge bucket type. Aggregate drier of single rotating drum construction. Factors (dust) collector of the exhaust fan and centrifugal cyclone type separator. Two hot aggregate elevators of the totally enclosed centrifugal discharge bucket type. Gradation control unit of the 4 bin screening type. Fines feeder of the conveyor of the piling conveyor type. Portable bituminous proportioning and mixing type. Piping equipment and wood blocking required for central plant erection and operation with tank car, diesel engine, complete with accessories, conforming to MIL-E-11276. Above units shall be mounted on semitrailers proposed at the discretion of the supplier as long as the plant may be interconnected mechanically and operated at rated capacity. Each vehicle shall operate over unimproved roads and up to 10 mph. Each cross country terrain at speeds trailer shall be equipped with a water proof, 24 volt, vehicular electrical system. Each unit shall be provided with lifting and tie-down attachments. Mixing plant is intended for use as a complete central plant (except for burner fuel storage, hot oil heater, asphalt meters, bulk bituminous storage, and

asphalt storage transfer pump facilities) for producing continuous mix, high type asphaltic concrete mixes. In accordance with MIL-M-52329, FSN 3895-689-7402. No security clearance required to obtain APPI, USAECOM.

APPI No. ME-113. Shop equipment, general purpose repair, semitrailer mounted. Shop shall consist of a van body with a hot air heating system and folding sides mounted on a semitrailer chassis. Shop shall be fitted with all items specified in SM 5-4-4940-511. Contractor shall furnish complete shops with all items of equipment except the 60,000 Bu heater, and five padlocks which will be furnished by the Government and shall be mounted by the contractor. Shop shall be identical to the prototype which will be loaned to the contractor by the Government. In case of conflict between the Government loaned prototype and the specification, the specification shall govern. All seals, hoses, V-belts, electrical cables, cords and wiring shall be made of material capable to minus 65° F. Shop shall not leak when exposed to a precipitation of 1/2 gallon per minute per square foot of surface. Shop shall perform at any ambient temperature between minus 65° F. and plus 125° F. When loaded with the tools and equipment, the shop shall withstand towing on paved roads, unimproved roads, and cross country trails. The towing shall include abrupt stops and sharp turns. During or following towing, there shall be no damage to or displacement of any component, accessory, part, or tool installed in or on the shop; no evidence of defective welded, bolted, or riveted connections on the shop; and no entrance of water, mud, or dust into the body of the shop. The gasoline engine shall conform to MIL-E-11275, Group II, liquid cooled with a fuel tank of at least a 55 gallon capacity. The body shall be constructed of aluminum and steel with welded and riveted connections. Shop shall be equipped with service and blackout lighting systems. Lifting and tie-down attachments shall be provided. The general purpose repair shop is intended for use by personnel engaged in the maintenance and repair of mechanical equipment. In accordance with MIL-S-45538, FSN 4940-287-4894. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-127. Voltmeter, Digital AN/GSM-64. For General purpose use. For making fast, accurate DC voltage measurements with extremely small changes in voltage that would be impossible to detect on a moving coil pointer meter. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-128. Test set, electronic circuit AN/GSM-65. Measures output voltage, output current, frequency, regulation and efficiency of either single phase or three phase aircraft inverters. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-129. Test set, electronic circuit AN/GSM-72. On command from a test programmed tape the AN/GSM-72, makes either dc resistance, insulation resistance or impedance measurements. It permits static testing of independent modules, chassis of various radio and radar equipment. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-130. Radio set AN/FRC-93(). Provides transmitting and receiving facilities in the 3.4 to 29.7 mc frequency range. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-131. Terminal, telegraph AN/MGC-34(). A lightweight mobile assemblage consisting of 3 ea Teletypewriter TT-4C/TG; 3 ea Reperforator-Transmitter, Teletypewriter TT-76C/GGC; 6 ea Terminal, Telegraph TH-5/TG; 1 ea Junction Box J-85/C; 3 ea Chairs, folding; 1 ea Cable Assembly, Power, Electrical 100 ft; with accessory equipments installed in 1/2 ton Trailer M-416 (mod). The teletype equipment may be operated from the trailer or may be rapidly removed and placed in operation from a tent or other shelter as needed. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-132. Public address set AN/PIQ-5A. May be used portably or with its electronic megaphone mounted to a stand and the microphone hand-held at a distance up to 25 feet from the megaphone. Provides amplification up to 46 db. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-133. Frequency Meter AN/TSM-16A. High speed electronic counter combined with an accurate crystal controlled timing gate. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-134. Calibration set, radiac AN/UDM-1A. Designed to provide a radio-active source and calibrating radiac equipments. A capsule containing a small amount of cesium 137 furnishes a beam of radiation. An optical system is provided so that the meter of the radiac equipment under test can be read from a safe distance. Different from AN/UDM-1 in that radio-active cesium 137 is used instead of cobalt 60. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-135. Radio set AN/PRC-41. Provides ground-to-air communication within the frequency range of 225.0 to 399.99 mc. in the form of a man-carried pack. Adaptable to vehicular installation or fixed station use by use of Accessory Kit, Radio Set MK-706/PRC-41. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-136. Test set, teletypewriter AN/UGM-1. Alignment of telegraph circuits and equipments analysis of telegraph signals, bias distortion, contact efficiency. No security clearance required to obtain APPI, USAECOM.

APPI No. EL-137. Spectrum analyzer AN/UPM-84A. This is a broad band multiple superheterodyne type of receiver. The output is a video display or a cathode ray tube which shows power distribution of radio frequency as a function of frequency. It features a variable scan ratio, variable sweep width and sweep I.F. No security clearance required to obtain APPI, USAECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated Feb. 7, 1967 page 2 No. PSA 3986 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. WE-227. Panel Control Box, P/N 11701255, a small arms part. This armament control panel subsystem is used on a machine gun mount. This system consists of four (4) assemblies and approximately 45 other parts. Components must be wired and soldered. Wiring diagram and schematic diagram must be used to assemble this system. FSN 1005-912-4105. No security clearance is required to obtain this APPI.

APPI No. WE-228. Brush, Cleaning Small Arms, P/N 7790463, a small arms part. Brush is used to clean the chamber of the 7.62MM M14 Rifle. The brush has a total length of approx. 3.4 inches. The brush consists of an adaptor and brush assembly, a nail, and a driver. Component has capped end on front of wire protrusion. FSN 1005-690-8441. No security clearance required to obtain this APPI.

APPI No. WE-229. Frame Assy; Rear Sight P/N 7791015, a small arms part. This assembly is the frame for the sliding member which enables the operator of the M79 Grenade Launcher to set the required elevation for the weapon. Material is steel. Tolerances are not difficult to maintain. FSN 1010-439-6250-B056. No security clearance is required to obtain this APPI.

APPI No. WE-230. Variable Resistor & Switch Assy, P/N 779-1879, a small arms part. This item is used on a machine gun mount and consists of approx. thirty (30) parts. Approximately twenty (20) of the parts are standard shelf items such as screws, washers, pins, inserts, and wire. The non-standard parts are gears, arms, plate, springs, and support. Electrical components are a resistor and a wiring harness with schematic diagram. FSN 1005-073-9009. No security clearance required to obtain this APPI.

APPI No. WE-231. Tray Assembly, P/N 7791-028, a small arms part. This feed tray assembly permits ammunition to be fed to the 7.62MM Machine Gun M73. The assembly consists of a tray, a bracket, 2 retainers, and 4 rivets and must be welded, riveted, stress relieved, carburized, quenched, and tempered. Material is steel. FSN 1005-690-0322-A110. No security clearance required to obtain this APPI.

APPI No. WE-232. Barrel w/Flash Suppressor, P/N 11686344, a small arms part. A machine gun barrel used on the .50 Cal. M85 Machine Gun. The gun is capable of firing at sustained rates and the quality of steel in the barrel and the dimensions of the barrel are critical. Tolerances to be held are moderately difficult. FSN 1005-912-4123. No security clearance required to obtain this APPI.

APPI No. WE-233. Guard Hand Front, P/N 5564245, a small arms part. This front hand guard is used on the M1 Rifle. The guard itself is made of wood and the ferrule and spade are made of steel. Tolerances are not difficult to maintain on this component. FSN 1005-556-4245. No security clearance is required to obtain this APPI.

APPI No. WE-234. Guard, Hand Rear, P/N 5546024, a small arms part. This rear hand guard is used on the .30 Cal. M1 Rifle. The guard itself is made of wood; the band is made of steel. Tolerances are not difficult to hold. FSN 1005-554-6024. No security clearance is required to obtain this APPI.

APPI No. WE-235. Stock Assy. P/N 6535467, a small arms part. This assembly consists of a wood stock, a steel ferrule, a screw, and a swivel and is used on the .30 Cal. M1 Rifle. Tolerances are not difficult to hold. FSN 1005-653-5467. No security clearance is required to obtain this APPI.

APPI No. WE-236. Selector, Rate, Cal. .30 Carbine M2 and M3. P/N 716838, a small arms part. This component is used to select between automatic, semi-automatic, or manual fire on the .30 Cal. Carbine. This selector is composed of a body and a knob. The body requires heat-treatment and both require application of final finish. Some tolerances will be difficult to maintain. Material is of carbon steel. FSN 1005-716-1838. No security clearance is required to obtain this APPI.

APPI No. WE-237. Brush, Bore, 7.62MM .30 Cal. P/N 5564174, a small arms part. This is a wire brush used by the operator to clean the bore of the .30 Cal. or 7.62MM weapon. The brush has a maximum diameter of 0.335 inches and a pitch of 0.125 inches. The total length is 3.11 inches and the brush length is 2.06 inches. The brush has a tip with internal threads. A rod is screwed into these threads for handling by the operator. Weight is important. FSN 1005-556-4174. No security clearance is required to obtain this APPI.

APPI No. WE-238. Spring, Operating Rod. P/N 6147568, a small arms part. This operating rod spring is used on the .30 Cal. M1 Rifle. The operating rod is attached within the spring to provide for semi-automatic operation of the weapon. Moderately close tolerances are required on the wire diameter and spring diameter. The spring must be heat-treated, quenched, and tempered. FSN 1005-614-7568. No security clearance is required to obtain this APPI.

APPI No. WE-239. Tube, Gas Cylinder. P/N 5509079, a small arms part. This gas cylinder tube is used on the .30 Cal. M1918A2 Browning Automatic Rifle to return the gases from the barrel to the receiver to automatically operate the weapon. Overall tolerances are moderately close. Consideration must be given to erosion of certain areas by the hot gases of combustion. This component must be heat-treated, quenched, and tempered. FSN 1005-550-9079-A004. No security clearance is required to obtain this APPI.

APPI No. WE-240. Leaf, Rear Sight Assy. P/N 7267936, a small arms part. This rear sight leaf assembly is used on the Cal. .50 heavy barrel machine gun, M2. The sight is graduated in meters. The assembly consists of a leaf, click, a slide, a knob, a screw, two pins, and a nut. This assembly should be capable of operating over a full travel range by finger pressure only. Tolerances are not difficult to maintain. Material is steel. FSN 1005-336-8008. No security clearance is required to obtain this APPI.

APPI No. WE-241. Flash, Hider. P/N 7162072, a small arms part. This component is attached to the muzzle end of the Cal. .50 heavy barrel machine gun, M2 to help smother the flash. It is attached to the barrel by a nut and bolt. The hider consists of a cone, a ring, a segment, a nut, and a bolt. Material is steel. FSN 1005-716-2072. No security clearance is required to obtain this APPI.

APPI No. WE-242. Carrier, Aperture, Rear Sight. P/N 7791044, a small arms part. This aperture carrier is used on the rear sight assembly to measure elevation. It slides up and down on the posts of the rear sight. (Item is applicable to Launcher Grenade 40MM, M79). This part is machined from an investment casting. A final protective finish is applied. FSN 1011-439-6249-B056. No security clearance is required to obtain this APPI.

APPI No. WE-208. (This item of APPI was previously published (6 December 1966) and is now cancelled.) Aiming Circle, M2. An optical instrument consisting of a telescope mounted on a mechanism which permits unlimited azimuth and limited elevation movements and is used to measure angles from a base line. This complex fire control instrument is considered difficult to manufacture. No security clearance is required to obtain this APPI.

APPI No. AP-3R-3. Projectile, 175mm, HE, M437. MPTS is approx. 34" L consists of 4 components, Body, 34" L x 6.88" OD, parabolic shape with tapered base section, 5.5" max. ID, tapered wall thickness, serrated rotating band seat, 2" ID nose thread, material, steel, ASTM A273-58T sections 1-14, Inc., for Hot Forge and heat-treat method, minimum mechanical properties for base section are, YS 80,000 PSI, elongation 10% and for sidewall, YS 85,000 PSI elongation 12%. Rotating Band, blank, 6.905" ID x 2.48" W x .48" wall thickness, material, gliding metal, Class B, annealed, Spec. MIL-B-20292. Obturating Band, 6.59" ID x .37" W x .255" wall thickness, material, polyamide molding plastic, composition A, type 1, Spec. MIL-M20693 and Base Cover, 4.18" OD x .0299" thick, material, steel, strip CR, temp 4, finish 1, ASTM A109, welded 360 degrees to base. Contractor shall provide and maintain an effective quality assurance system in accordance with Spec. MIL-A-2550 and MIL-I-45208. Ballistic test criteria required for acceptance of each lot. Firms bidding on this item

will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required for mass production of this projectile. This projectile is considered very difficult to produce to applicable specifications. No security clearance required to receive APPI. AP, USA MUCOM.

APPI No. AP-43R-1. Fuze, PI, BD, M530A1 Primer and Detonator Loaded is 1.963" L x 1.350" D and consists of 44 different components, major components, Housing Rotor, 1.35" D x 1.44" L machined with various grooves, slots, bores, counterbores and holes, material, aluminum alloy rod, temper T3, Spec. QQ-A-225/3. Rotor, .745" D x .716" L, various size holes, slots and counterbores, material, brass rod, 1/2 hard, composition 24, Spec. QQ-B-626. Shield (Blank), 1.25" D x 1.489" L x 1.05" ID with .165" web near end, material, aluminum alloy 61S-T4, Spec. MIL-A-12545. Insulator, Contact, "Cup-Shaped", .22" OD x .192" ID x .30" L, material, thermoplastic, non-rigid polyamide resin, Type 1, Spec. MIL-P-20693. Plate, Bearing (Rear), approx. 1.00" D x .028" thick with various slots, holes, and formed tabs, material, brass strip, composition 1, 1/4 hard, Spec. QQ-B-613. Plate, Bearing (Front), .762" W x .92" L x .028" thick with various radii, slots, holes and formed tabs, material, brass strip, composition 1, 1/4 hard, Spec. QQ-B-613. Leaf Number 3, .328" W x .475" L x .052" thick with various radii, holes and tabs, material, aluminum alloy 2024, temper T3, Spec. QQ-A-250/4. Leaf Setback, .467" L x .306" W x .052" thick, various holes and radii, material, aluminum alloy 2024, temper T3, Spec. QQ-A-250/4. Plunger Graze, .672" L x .253" D, material, stainless steel 303, condition A, Spec. QQ-S-763. Various small components required such as nuts, pins, screws, roll pins, springs, washers, spacers bushings, contacts, studs, clips, star wheel pallet and a bleeder resistor. Complete assembly is subject to arming and non-arming acceleration tests, graze and armor plate functioning, environmental conditioning and safety tests. Firms producing this item will require a technical staff of engineers, metallurgists and tool engineers to design and maintain an effective quality assurance system. This item is considered very difficult to produce in accordance with applicable specifications. No security clearance required to receive APPI. AP USA MUCOM.

APPI No. AP-63R-1. Projectile, TP-T, 152mm, XM411, MPTS is 15.07" L x 5.995" in diameter. It consists of 4 parts and 1 sub-assembly as follows. Body and Band Assembly, the body is 10.02" L x 5.993" in diameter with sidewall thickness of .418", it has 5-1/2-12UN-2B internal threads on open end, 2-3/8-16UN-3B-LH internal threads in base end. The band seat is .853" W x .138" D. Body material is, alloy steel for forging ASTM, Specification A274 or steel alloy, hot-rolled bar, ASTM, Specification A322. The rotating band is 6.033" ID x .828" W x .252" thick. Material is sintered iron, Class 4, Specification MIL-R-11073, Spike, length 6.05", large diameter is 5.38" with neck reduced to 2.745" OD and formed cavity 4.916" D x 1.81" ID. There is a 5-1/2-12UN-2A thread on the large end, 5-1/4-12UN-2A thread on the shoulder and a 200-UNS-1B internal thread at open end of cavity, material is aluminum alloy, forging, ASTM, Specification B247, or aluminum alloy, Bar or Rod, ASTM, Specification B221 or B211, Windshield, a tapered cone 8.93" L with large D of 5.99" and small D of 1.206" with wall thickness of .125", material, steel, special bar, quality, Specification ASTM-A-107 or carbon steel, plate, Specification QQ-S-535, Plate, approximately 5-1/2" D disc x .63" thick with 5-1/2-12UN-2A thread on outer diameter, two 1/4" work holes 2.87" apart drilled to 3/16" D on one face, material, steel, bar, special quality, ASTM, Specification A107 or steel cold finish, ASTM, Specification A108 or steel carbon, plate, Specification QQ-S-635. Adapter, Tracer, 3.000" D with step out to 2.247" D x 1.18" thick, cavity in center, .770" D x .927" D, 2-3/8-16UN-2A thread on step D, 2 work holes 5/16" D x 7/32" D, spaced 2.00" apart, material, aluminum alloy, bar or rod, ASTM, Specification B211 or B221 or aluminum alloy forging, ASTM, Specification B247, protective finish, Finish Number 7.2.1 of MIL-STD-171, dechromate seal in accordance with Table III of Specification MIL-A-8625. This projectile assembly is difficult to manufacture due to tight tolerances and concentricities required. Firms bidding this item must have a staff of metallurgists, and chemical engineers and tool designers to fabricate this projectile to meet Government Specifications. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-64R-1. Cartridge, 152mm, Heat-T-MP-XM409E1 consists of (8) major components. Body 5.99" D x 10" L x 5.1" ID x 7.87" D, smaller base 2.375" D x 5.74" counterbase 1.19" D threaded 1 and OD each end, Band groove on outside material, steel, forging AISI 52100 steel 1.00% minimum carbon, Ring Locking 5.5" D x 1.5" L x 4.7" ID. Threaded on outside D, material, steel, tubing seamless, specification QQ-T-830 or steel tubing FS-1055. Adapter Fuze 3" D x 1.178 length, counter, thread one end 2.375" thread opposite end material aluminum alloy 7075-T6 specification

QQ-A-277. Windshield 5.99" D tapered to approximately 2" D at small end by 6.5" L with approximately 3/16" wall thickness, material steel. Cap, Windshield 2.26" D tapered to 1.225" opposite x 1.947 length counterbases in inside diameter, material aluminum alloy 7075-T6 specification QQ-A-277 liner, smooth 60 degree approximately 5.4" D x .175" wall thickness x 4.421" length copper sheet specification QQ-C-576, rotating Band-Blank 6.033" ID x .828" length with 252" thick wall. Material, sintered iron class 2 specification MIL-R-11073. Ring, locking, 3.85" D x .31" length x 3.25" ID threaded inside. Material, aluminum alloy 2024-T4 tubing specification WW-T-785 spacer 2.375" diameter x .36 thick threaded OD, material aluminum alloy, 7075-T6, specification QQ-A-277. Complete assembly also consists of smaller components. Dummy fuze, insulators, wire and eyelet to produce to meet applicable specifications. No clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-65R-1. Case, Cartridge, 152mm, XM157 - parts for consisting of two parts, (1) body and (2) base. Both parts are made of a rigid, molded composition consisting of nitrocellulose, Kraft (Sulfate) Woodpulp Cellulose and resin with a no residue characteristic upon ballistic firing and stability, tensile strength, weight, density and workmanship requirements as indicated in Specification PA-PD-2616 w/EO 38602-S. Body is of cylindrical, expanding, tapered shape of .125" wall thickness from an open end of 5.9" OD to 6.45" with subsequent step down curvature to an opening of 3.265". Side wall may be made in one or more sections parallel to the datum D only. Base is of cylindrical, flat, dish shape with slight base curvature and .175" wall thickness with .68" side wall height with an internal center hollow hub of .712" ID and .96" high opening, with .40" hole in top of hub. Firms bidding on this item should have a technical staff familiar with molded kraft fiber and explosive processing. This item is not considered difficult to manufacture to applicable specifications. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-77R-1. Fuze, PD, M525, Less Head Assembly, MPTS consists of 13 components, the major components are Body, truncated cone, 1.77" L, max OD of 1.93", 1-1/2 - 12 thread on the outside of the base with a 1-1/8 - 20 thread in the nose, various holes, bores, counterbores and threads, material, aluminum alloy rod, T4, ASTM B211 or 2011, T3, ASTM B211, alternative material, aluminum alloy, casting, alloy SC 84A or B, ASTM B85 or aluminum alloy, permanent mold, casting, alloy, SC 64D, ASTM B108, Pin, Safety, 1.55" L, shank D of .198", .343" head D, material, brass rod, ASTM B16, alternate material, for upset or cold heading only, steel bar, 1010 or 1020, as cold finished, ASTM A108, Pin, Slicer, Guide, .375" L, slotted head with 1/4 - 28 thread on OD, material, steel, bar, cold finished, 1117, 1212 1213, ASTM A108, Cup, Booster, .83" L, 1.128" OD, wall thickness varies from .110 to .064", 1-1/8 - 20 thread on OD for approximately .225" at top of cup, material, aluminum alloy die casting, composition S12B, S12A, or SC 84A, ASTM B85, alternate material, aluminum alloy sheet, 1100, 3003, or 5052, ASTM B209, Slider, .82" L, .462" in D, various slots, holes, material, aluminum alloy rod, ASTM B211, smaller components consist of three helical springs, two plugs, a pin, and a safety wire. This item is considered difficult to produce in accordance with the applicable specifications. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-79R-1. Mine, AP, M26, Body is made of five aluminum die casting alloy number 380 in Federal specification QQ-A-591. The body casting is circular and is three inches in D and approximately six inches H with a 1/8" cross section. Two diameters on the internal surface are required to be bored to maintain close tolerance. There are two castings which assemble into the body, one is used as cost, the barrel, which is approximately 2 1/2" in D and 2", the other is about 2" in D and requires assembly of a die cast lever, a spring and an explosive unit (delay detonator) purchased from Olin Mathieson at East Alton, Illinois. Two additional die castings: 3" and 2" in D and 1/2" H with a small steel screw machine part which is threaded on one end and convex on the other, with a small and a large "O" ring (commercially procured) are assembled together with a spring steel fastener. The body and cover castings are required to pass a leak test. The two internal castings, the cover assembly and a plastic separator are assembled into the body for shipment. Shipment requires fiber containers for three units and a wooden box which takes six fiber containers. In order to manufacture this item, a producer must be capable of fabricating intricate aluminum die castings and have some machining facilities. He must have a competent staff of engineers, tool and die makers and metallurgists. This item is considered very difficult to produce to applicable specifications and drawings. Confidential clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-99R-1. Projectile, 60mm Mortar, M54A1. It is a pearlitic malleable iron casting Class 30-40. Specification MIL-C-46971. Approximately 1 1/2" diameter and circular in a teardrop shape with a maximum OD of 2 3/8" with a .003 tolerance, and a minimum D at one end of approximately 1" with a .020 tolerance. Both ends of the body are threaded 1/2-14 UNF-2B and the other end 1.5-12 UNF-1B. The wall thickness average approximately .003 inches on the finished item. The body requires hydrostatic testing at 4000 PSI, air test at 150 PSI, a magnetic particle inspection and radiographic inspection. The protective finish is olive drab paint on the exterior (.9 to 1.5 mil thickness) and a type of acid proof black paint on the interior.

APPI No. AP-100R-1. Projectile, 60mm Mortar, M54A1. It is a pearlitic malleable iron casting Class 30-40. Specification MIL-C-46971. Approximately 1 1/2" diameter and circular in a teardrop shape with a maximum OD of 2 3/8" with a .003 tolerance, and a minimum D at one end of approximately 1" with a .020 tolerance. Both ends of the body are threaded 1/2-14 UNF-2B and the other end 1.5-12 UNF-1B. The wall thickness average approximately .003 inches on the finished item. The body requires hydrostatic testing at 4000 PSI, air test at 150 PSI, a magnetic particle inspection and radiographic inspection. The protective finish is olive drab paint on the exterior (.9 to 1.5 mil thickness) and a type of acid proof black paint on the interior.

APPI No. AP-60R-2. Fuze, MT, M565 is approximately 2 1/2" D x 4 1/2" L. Procured detonator fuze complete assembly consists of approx. 149 component parts with approx. 76 sub-assemblies. Major components: Body, 2 1/2" D x 1 1/2" L with various counterbores, threads, holes and slots; material, brass, Spec. MIL-B-13351 or QQ-N-35, Ring, 1 1/2" ID x 2 1/2" L with 1-15/16" 24 thread on OD with 10 slots one side, material, aluminum 2024-T4, Spec. QQ-A-267 or QQ-A-268 or aluminum die casting, Spec. QQ-A-591, Plug, closing, 1 1/2" D x 3 1/2" L with various holes and counterbores material, aluminum 2024-T4, Spec. QQ-267 or temper 351 of QQ-A-268 or aluminum die casting, Spec. QQ-A-591 Housing, 1 1/2" D x 1 1/2" L x 1 1/2" counterbore 1.167D with various holes and 1/2" thread inside one end, material, stainless steel 416, Spec. QQ-S-763. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-107. Projectile, 105mm, Smoke, M60 MPTS consisting of three major parts: Body, 14 1/2" L x 4 1/2" D, tapered nose and base. Nose end internally threaded to a depth of 1.417", approx. 3" up from base is machined and knurled for rotating band, parabola shaped with varying wall thickness. Material: hot forge, carbon steel, hot rolled, smooth-bore forging quality, non-resulfurized, ASTM specification A273 or special bar quality, ASTM A107; alternate material, hot cup cold draw, steel, forgings, nonresulfurized, specification MIL-S-10520, or specification MIL-S-11310 for cold forming. Adapter, 1 7/8" L varying diameters from 2 1/2" one end to 1 1/2" interior and exterior machined in various steps with exterior and interior material, steel, carbon, bar, special quality, bar nonresulfurized, ASTM specification A108, Blank Rotating Band, 4 1/2" ID x 2 1/2" H with .201" wall thickness. Material: sintered iron, class 4, specification MIL-R-11073. A guiding metal rotating band, class B, annealed, specification MIL-B-20292, with a .007" wall thickness may also be used with a modified band groove on the body. Adapter assembled to body and brazed 360 degrees. Rotating band assembled to body and machined. Other parts include plastic dust cap and VCI paper. This item is considered very difficult to produce. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-109. Bursting Casing M5 Assembly, MPTS for Projectile 105mm, M60 Smoke, A piece design, approx. 13" L, 1.005" D to 1 1/2" at adapter end, ID .917", wall thickness of tube, .037". Tube reinforcing at base end of tube, two piece design, casing 12.005" L, .955" OD, wall thickness .037", straight tube closed at one end. Sleeve 75" L x .37" ID at one end, .997" ID at other chined midway 360 degrees. Material: steel carbon plate, steel, sheet and strip special bar cold finish, nonresulfurized, A108, steel tubing, J ASTM specification A519, e to be silver brazed 360 degrees item must have a quality, metallurgists and produce in accordance specifications. 1 to receive APPI.

10mm,
245,
Q-A-1,
1.625"

from .0699 to .0455" at mouth. Machine cylindrically if necessary between D limits to blend with taper. Protective finish, finish number 7.2.1 of MIL-STD-171. Dichromate seal in accordance with Table III of Specification MIL-A-8625. Manufacturing firms bidding this item require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate, and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specification. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-111. Fuze, PD, M524A5, MPTS is 6.01" L x 2.408" max OD contains 64 components. Major assemblies and components thereof are Body and Striker Assembly consisting of 15 components containing Body, truncated cone 4.202" L x 2.408" max OD tapered to a minimum of .85" through a .22" basic radius, 2-12UNS-1A thread and a 1.6-20UNS-2B LH thread on the large end, bored and counterbored on ID, material, aluminum alloy rod, 2011-T3 or 2024-T4, ASTM-B211, alternate material, aluminum alloy die casting, 2014-T4, ASTM-B247, Spring, Striker, solid height 0.7" max, .407 max OD, advisory wire diameter .038", material, music wire, ASTM-A228, and Striker, 2.06" L x .762" OD with a .99" D shoulder approx. .257" D, material aluminum alloy rod 2011-T3 or 2024-T4, an ASTM-B211, alternate material, aluminum alloy die forging, 2014-T4, ASTM-B247. Pull wire Assembly, consists of 3 components: Wire, Pull approx. 4" L with a Pin, Setback Safety, 1.32" L, both components, .062" in a diameter, material, music wire, ASTM-B228, and Pin, Plunger Safety, 1.56" L x .125" in D with a Number 4/111/40UNC thread, material, aluminum alloy .6061, Temper T-6, ASTM-B211, Plunger, 1.237" L x .998" max OD, various bores, counterbores, angular holes, radii, and a gear segment, material, brass, sintered metal powder structural parts, Class B, ASTM-B282, alternate material, free-cutting brass rod, half-hard, ASTM-B16. Arming Mechanism Assembly, a device to control arming time contains 41 parts, major components are Body, Arming Mechanism, 1.504" L x 1.500" OD, various holes, cavities, countersinks, Counterbores and radii, material, aluminum alloy rod, 2011-T3 or 2024-T4, ASTM-B211, alternate material, aluminum die forging, 2014-T4, ASTM-B247, Drive Spring, approx. 38" L, .125" W and .010" thick wound to form 11 coils in a 1.25" D, torque requirements, material, steel carbon strip, 1095, spheroidize annealed type, Spec. QQ-S-777, Timing Device Assembly, contains 15 components consisting of wheels, pinions, balance, pullet, shafts, upper and lower frame rivets, Setback Device Assembly contains 14 components consisting of front and rear frame, springs, shafts, levers, and pins, the material in the above two assemblies includes corrosion resisting steel wire, brass strip and rod, sintered brass, music wire and steel strip, Rotor Assembly, contains 4 components consisting of a stop pin and spring Rotor, .600" L x .939" OD with various drilled holes and counterbores, material, freecutting brass rod, half-hard, ASTM-B16, and Gear Timing, ring gear, 1040" thick with 50 teeth covering 277 degrees of the .8375" OD, .8125 theoretical pitch diameter, material, brass strip, alloy number 6 or 8, hard, ASTM-B36, alternate 6, half-hard, ASTM-B121, or freecutting brass rod, half-hard, ASTM-B121. Other major components of the fuze are Cup, Booster, 1.659" L x 1.48" OD with a 1.6-20UNS-A LH modified thread on the upper .38" of the rim, wall thickness varies from .079" on the side to .116" on the bottom, material, composition SG 100A or SC 84A, ASTM-B85, Liner, .020" material thickness, material, aluminum alloy, sheet, 1100-0, ASTM-B209. The fuze must meet tests, pull test on setback device and a plunger safety pin retention test. This item is considered difficult to manufacture. No security clearance required to receive APPI. APUSAMUCOM.

APPI No. AP-112. Projectile, 155mm, M110 MP TS, consists of Body, Adapter, and Rotating Band. Body 22.84" L x 6.092" D nose section approx. 11.25" L tapered from 6" to 2.84" at nose end. Bottom of cavity counterbored 1.08" D x .75" D. Rotating band groove on outside diameter near base end, 2.5" 12 thread inside nose end. Material, S-10520 for hot cup cold draw or MIL-S-11310 for cold extrusion Mechanical Properties minimum Adapter 3.76" L x 2.84" D tapered on both ends inside and outside thread. Material Steel, Carbon inside diameter x 1.07" W. Surged on body and brazed into nose end. Must withstand 100 PSI internal air pressure for 15 seconds without leakage. Complete assembly is phosphate coated and painted on outside diameter. Package 8 properties on a wooden pallet for shipment. This item is considered very difficult to procure according to applicable specification. No security clearance required to receive APPI.

APPI No. FA-50. Boxes Metal M19A1: Reusable steel boxes have hinged covers, sealed by means of a rubber gasket, are constructed of metal and used for the packaging and protection of Small Caliber Ammunition. Clearance is not required for the APPI. Quantity planned for FY-67 procurement is 642000. Delivery schedule is 150000 per month beginning four months after award of the contract. No Government Furnished Property is expected to be used. Government drawings and specification will be available with the solicitation.

APPI No. FA-51. Thruster, M13: A device consisting of a gas-operated firing mechanism cartridge chamber and piston whose primary purpose is to impart a thrust to a known load or pose a force to a given travel. This item is considered a highly complex precision device. It is classed as a hazard ous item. The device is subject to rigid safety control during the course of manufacture. Drawing and specifications for the item will be available at the time of solicitation. Projected quantity is 350 devices - required delivery being nine months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirements or Technical Manual requirements connected with the procurement of this item.

APPI No. FA-52. Metallic Belt Link M1 for Caliber .30: Links are made of steel, stamped to size, heat-treated, one-piece configuration, treated to prevent rust and subject to functional tests to assure satisfactory machine gun feeding. Quantity - The planned procurement quantity is 88343000. The delivery schedule is 10000000 per month - first delivery being 120 days after the date of award of the contract. No clearance is required to receive the APPI.

APPI No. MI-79. Main Sustainer M30A2 Motor with accessories for M16C/J13. Approximate weight 100 lbs. Length approx. 8 1/2" long and 32" in diameter. No security clearance required to receive APPI. USAMICOM.

APPI No. MI-63R1. CANCELLATION OF APPI. High Power Motor for M16C/J13. Approximate weight 100 lbs. Length approx. 8 1/2" long and 32" in diameter. No security clearance required to receive APPI. USAMICOM.

APPI No. ME-40R2. Detecting Set, Mine, Aural Indication, 10 volt, direct current, metallic, portable, transistorized, with case. In accordance with MIL-D-23359, which is classified confidential. No security clearance required to obtain APPI. FSN 6665-684-2659. USAMEC.

APPI No. ME-45R2. Air Conditioner, 18000 BTU/HR. Base mounted, self contained, compact lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor-motor assembly shall be hermetic type and the compressor and motor are enclosed in the same housing. There shall be no external shaft or base seal and the motor shall operate at 240 volts, 3 phase, 50 and 60 cycle. The motor for compressor shall be 1/2 HP, AC, 208 volts, 50/60 cycle, 3 phase nominal cooling capacity 18000 BTU/HR and 12000 CFM rated capacity; nominal heating capacity 12000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum, enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 pounds. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344, FSN 4120-959-4431, No security clearance required to obtain APPI. USAMEC.

APPI No. ME-56R1. CANCELLATION OF APPI. APPI No. ME-56R1, Heater, Duct Type, Portable, published previously in the 7 June 1966 issue of Commerce Business Daily, is hereby cancelled by USAMEC.

APPI No. ME-74. CANCELLATION OF APPI. APPI No. ME-74, Detecting Set, Mine, Portable, Microwave, 16 volt D. C. Operating Power, with carrying case, published previously in the 1 March 1966 issue of Commerce Business Daily, is hereby cancelled by USAMEC.

APPI No. ME-103R1. Detecting Set, Mine: Truck Mounted; Aural and Visual Indication; 24 volt, DC operating power. Detecting set shall consist of a mine detector mounted on a 1/4 ton truck assembly; a carriage box assembly containing the counterbalance assembly; front end steering, boom, and hydraulic control panel assembly; electronic box assembly; and indicator panel assembly. The mine detector shall be mounted on a government furnished 1/4 ton, 4 x 4, M38A1 truck conforming to MIL-T-1374. Supplier shall make the necessary modifications to the truck for installation and con modifications required in order to mount the mine detector. The mine detecting set is intended for

use over all types of terrain, streams, and salt water beaches for the location of buried metallic antitank and antipersonnel land mines. In accordance with MIL-D-51162 and Dwg. No. DL13200E 0150. FSN 6665-678-2439. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-114. Heater, Duct Type, Portable. A gasoline burning, self-contained, ground portable heater, trailer mounted, having a nominal uncontaminated warm air output of 400,000 BTU/HR at a discharge temperature of 280 degree F, at an ambient temperature of minus 65 degree F, with automatic temperature control, which operates as an entirely self-contained heater using a gasoline engine power package. The government shall furnish a military design 1 1/2 HP, 4 cycle, gasoline engine (FSN 2805-714-8552, Model Number 1A08-11) and a heating torch, gasoline burning, 15,000 to 50,000 BTU output (FSN 4940-475-1574, MIL-H-52112). The heater shall consist of the following components: burner assembly, combustion chamber, heat exchanger, air system, fuel system, ignition system, heat control system, internal accessories, and external accessories. A type MA-1 trailer conforming to MIL-T-4608 shall be provided. Heater assembly is fully enclosed in a lightweight, substantially constructed metal cabinet or cabinets, which shall resist weather conditions. Overall dimensions approx. 20 1/2 inches wide, 49 1/2 inches in length and 26 inches in height. The dry weight of the heater with power package shall not exceed 280 pounds. The heater is intended primarily for use in ground heating aircraft engines and fuselages, and secondarily, for use in ground heating maintenance shelters, portable hangars, and other similar inclosures. In accordance with MIL-H-4607A, FSN 4520-915-7789. No security clearance required to obtain APPI. USAFEC.

APPI No. AV-163. Generator, 30 Volt, Direct Current, Aircraft engine driven, Type GEU-5A in accordance with MIL-G-6162. Appl. UH-1 Aircraft. This is a QPL item. Interested concerns should contact Bureau of Naval Weapons, Washington, D. C., in order to have their product tested and qualified prior to solicitation. QPL No. 6162-14, FSN 6115-725-1790. No clearance required to receive APPI. USAFEC.

APPI No. AV-164. Cup, Lock, Bearing Retaining power turbine. In accordance with Procurement Package 1-140-062-01. Appl., UH-1 Aircraft. This solicitation will be 100% set-aside for small business concerns. FSN 2840-587-7089. No clearance required to obtain APPI. USAFEC.

APPI No. 165. Glare Shield, Instrument Panel. Assembly includes aluminum alloy honeycomb, aluminum sheeting covered with fiberglass cloth, Type VIII, and wiring assembly. APPI, UH-1 Aircraft. FSN 1560-075-3385. No clearance required to receive APPI. USAFEC.

APPI No. 166. Panel, Protection, Electrical System, inclosed hermetically, molded plastic inclosure, aluminum panel, components, major components mounted on panel. Teppo Electric Corp., resistor, fixed, wirewound, Type No. T3 2W, 130 ohms, 1 pct. Raytheon Mfg., Semiconductor Device, Diode, Part No. CK843, Bourns Laboratories, resistor, variable, Part No. Bourns 160-1-201, Iron Fireman Mfg., Relay, Armature, Part No. R400-2-AV-500, O/A dim., 2.40 in., H., 2.70 in., W., 3.05 in. deep, floor mounted in accordance with Lear Siegler P/N 50178-002, or Sundstrand Corp. P/N 26883 only. FSN 6110-838-0453. No clearance required to obtain APPI. USAFEC.

APPI No. 167. Pump, Hydraulic, variable delivery. APPI, UH-1 Aircraft, Vickers, Div of Sperry Rand P/N PVB044-2 or Bell Helicopter Co. P/N 204-076-006-1 is only identification available. FSN 1650-872-8798. No clearance required to receive APPI. USAFEC.

APPI No. AV-168. Lap Belt, Pilot and Co-Pilot. Appl., UH-1 Aircraft. Aerial Machine Corp. P/N SK8200, Aitchison Leather Co. P/N 112662 and Bell Helicopter Co. P/N 205-070-749-1 is only identification available. FSN 1680-967-1831. No clearance required to receive APPI. USAFEC.

APPI No. AV-169. Shipping and storage container for UH-1B main rotor blades. In accordance with AVCOM Procurement Package No. 540-011-001-MUSC. This Procurement will be a 100 set-aside for small business concerns. FSN 8115-919-0176. No clearance required to receive this APPI. USAFEC.

APPI No. EL-138. Test Set, Radar AN/UPM-98A. A transportable test equipment designed to provide specialized facilities for performing maintenance, tests, and calibration adjustments on IFF interrogators, transponders, video coders, decoders, and associated radar video distribution systems, commensurate with the improved DOD-AIMS standards. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-139. RF Signal Generator Set AN/URM-25. This is a portable, general purpose radio frequency generator designed for field use in the general maintenance of electronic equipment. It is used to test the sensitivity, selectivity, and audio response of receivers, to align RF and IF stages, and to provide a signal which can be used when measuring receiver gain and output power. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-140. Generator, Signal AN/URM-64. The test set provides accurately pulse modulated and continuous wave radio frequency signals from 900 to 2100 mcs for testing radio and radar receivers and other electronic equipment when such usage requires less than 0.8 milliwatts of rf power. Functionally, elect and mech interchangeable with AN/URM-64. Differs in substitution of new 3 wire pwr Cable Assembly, Power, Electrical CX-3135/U (6 feet 0 in.). No security clearance required to obtain APPI. USAFEC.

APPI No. EL-141. Generator, Signal AN/URM-70. Provides a test signal for servicing FM receivers in the 50 to 400 mc frequency range. No security clearance required to obtain APPI.

APPI No. EL-142. Rapid Interference Measuring Set AN/URM-85. For making quantitative measurements of radiated or conducted broad-band or carrier radio frequency interference over the frequency range from 150 kc to 1000 mc. No security clearance required to obtain APPI.

APPI No. EL-143. Test Set, Radio AN/URM-113. A special test set designed to test plug-in units in various radio sets. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-144. Generator, Signal AN/URM-127. Generates audio, supersonic and low radio frequencies within the range of 20 to 200,000 cycles per second. Used as a general test oscillator in the field for free point servicing of various radio equipments. Similar to, but, not interchangeable with Audio Oscillator TS-382F/U. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-145. Generator, Signal AN/URM-149. Provides a radio frequency signal for the purpose of aligning Radio Sets in the frequency range of 600 mc to 1850 mc. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-146. Test Harness, Radio Set AN/URM-157. Provides interconnecting facilities for the components of the Radio Set AN/ARC-102 and Radio Set AN/MRC-95 and associated equipment (Antenna Couplers) while under test. Controls the power to the AN/ARC-102 and AN/MRC-95 during test. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-147. Test Set, Electronic Circuit Plug-in Unit AN/URM-159. Provides testing facilities for the AN/TYA-19 and AN/SRC-23(V) radio frequency modules. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-148. Oscilloscope - AN/USM-182. A general purpose laboratory type oscilloscope designed to permit observation of a wide variety of signals by the use of Plug-In Amplifiers. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-149. Electronic Rotary Blade Tracker AN/USM-188. A precision device designed to indicate and measure out-of-rack conditions of helicopter rotor blades. The three major units of the blade tracker, are the Magnetic Phase Detector DT-291(1)/USM-188, P/N 1332-300-1, a magnetic pickup unit which supplies RPM and sequencing data to the computer, rotary blade displacement; the detector rotary blade displacement DT-290(1)/USM-188, P/N 5135-100, containing the optics and circuitry necessary to detect the exact time of intersection of each blade with two light beams; and the Computer, Rotary Blade Displacement CP-767/USM-188, P/N 5337-200, containing all controls necessary to operation and read-out of input data required for blade adjustment. Connection of each to the other is accomplished with appropriate cables. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-150. Indicator, Channel Alignment ID-292/PRC-6. A specialized multimeter used for measuring significant circuit voltages and currents in Radio Set AN/PRC-6(1). Voltage for operation is obtained from the radio set battery through the input cable which terminates in a plug that mates with the test jack in the radio set. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-151. Radiacmeter IM-9E/PD. Measures and indicates accumulated dose of X and gamma radiation which wearer has been exposed. One end of radiacmeter an optical eyepiece and other end is charging contact. Contains ionization chamber into which is mounted small electrometer. Scale calibrated in milliroentgens is mounted in manner that amount of radiation which wearer was exposed since charging of electrometer can be read directly by holding radiacmeter to light and looking into eyepiece. Radiac detector charger is required to charge electrometer. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-152. Radiacmeter IM-93A/UD. For detection and measurement of radiation. Indicates the accumulated amount of radiation to which the wearer has been exposed. No security clearance required to obtain APPI. USAFEC.

APPI No. AT-79R1. Engine Multi-Fuel W/Container. This Ord 5702723 (Ord 5702683) engine assembly was originally released in August, 1966. Provision of this revision is adjustment of quantities. FSN 2815-911-3645. No clearance required to obtain APPI. USAFEC.

APPI No. AT-120. Transmission Assembly, Cross-Drive CD550-6A with Metal Removable Container. This Ord 5703101 assembly is a major component of the power train for tracked vehicles and has the following characteristics: (a) for use with engines of 550 to 850 gross horsepower (b) combination transmission and steering unit for tracked vehicles (c) brakes are foot operated (d) spread ranges and steering hydraulically controlled (e) mounts crosswise in vehicle and drives tracks through output shaft flanges. Assembly consists of: (a) Transmission Cross-Drive Ord 8355530 (b) Container Ord 8723296. SNL APP-Multiple. FSN 2520-086-7792. No clearance required to obtain APPI. USAFEC.

APPI No. AT-121. Cylinder Assembly, Hydraulic Brake Wheel. The Ord 7324707 cylinder assembly is a major component of the service brake system for the 1/4 ton 4x4 series trucks. This assembly consists of the following components: (a) cast body (b) bleeder screw assembly (c) rubber end bolts (d) aluminum pistons (e) rubber piston cups (f) return spring. SNL APP-Multiple. FSN 2530-918-0602. No clearance required to obtain APPI. USAFEC.

APPI No. AT-122. Starter Assembly, Engine Electrical. The Ord 10951134 starter assembly is a 24 volt engine mounted component of the Continental LD 427, 6 cylinder multifuel engine. This assembly is waterproof and consists of the following components: (a) cover (b) case (c) commutator head (d) drive housing (e) armature (f) field coils (g) Bendix drive (h) antifriction bearings (i) controls (j) common hardware. SNL APP G742 (multifuel) FSN 2920-763-2346. No clearance required to obtain APPI. USAFEC.

APPI No. AT-123. Starter Assembly, Engine Electrical. The Ord 1108581 starter assembly is a 24 volt engine mounted component of the GMC Model 302, 6 cylinder gasoline engine. This assembly is waterproof and consists of the following components: (a) cover (b) case (c) commutator head (d) drive housing (e) armature (f) field coils (g) Bendix drive (h) antifriction bearings (i) controls (j) common hardware. SNL APP G749 (A). FSN 2920-529-8460. No clearance required to obtain APPI. USAFEC.

APPI No. AT-124. Generator, Engine Electrical. The Ord 10889998 generator is a major component of the electrical system for a V12, 4 cycle, air cooled, Model AVS1-1790 gasoline engine. This generator assembly is a 28 volt, 300 AMP, gear driven aircraft type consisting of following components: (a) drive gear (b) armature (c) field coils (d) commutator head assembly (e) steel shell (f) antifriction bearings (g) controls (h) terminals (i) lubrication fittings. SNL APP G298. FSN 2920-830-1293. No clearance required to obtain APPI. USAFEC.

APPI No. AT-125. Engine Assembly W/Container. The Ord 5702670 engine assembly is a major component of the power pack for a tracked vehicle. This engine assembly has the following characteristics: (a) Model-AVDS-1790-2A (b) type-90 degree V-type air cooled (c) 12 cylinders (d) bore-5.75 in (e) stroke-5.75 in (f) compression ratio-16:1 (g) MGS-2400 RPM (h) BHG-750 at 2400 RPM (i) MGT-1710 FT-LB at 1800 RPM (j) compression ignition. SNL APP-Multiple. FSN 2815-856-9005; 2815-064-6270; 2815-856-4996; 2815-679-4963. No clearance required to obtain APPI. USAFEC.

APPI No. AT-126. Final Drive Assembly, Left and Right. The Ord 10864059 final drive assembly is a major component of the power train for tracked vehicle. This assembly consists of following components: (a) case (b) gear set-final drive (c) roller bearings (d) spaces (e) carrier (f) outer seal ring (g) oil seals (h) outer bearing cap (i) output shaft (j) input shaft (k) common hardware. SNL APP-Multiple. FSN 2520-678-4164. No clearance required to obtain APPI. USAFEC.

APPI No. WE-243. Buffer Assembly P/N 110 10518, a small arms part. Assembly consists of at least 11 components parts. Certain requirements and tests exist during assembly. Supplier should have adequate machining facilities. Physical properties exist on components. FSN 1005-908-4141-A110. No Security Clearance is required to obtain this APPI. USAFEC.

APPI No. WE-244. Swab, Cotton, Gun Cleaning. P/N 5019316, a small arms part to be used on Cal. 30 and 7.62 MM Rifle and Machine Guns. Material to be used will be unbleached clean cotton cloth. Dimensions 2 9/16 inches square. Other physical requirements exist. No Security Clearance required to obtain this APPI. FSN 1005-288-3565-A101. USAFEC.

APPI No. WE-245. Swab, Small Arms Cleaning: 5.56MM, M16 and M16E1, a small arms part. P/N 11686408. Material, cotton, cloth, natural color, 1 3/8 inches square. Other Physical requirements exist. FSN 1005-912-4248. No Security Clearance is required to obtain this APPI. USAFEC.

APPI No. WE-246. Carrier Assy., Barrel, pertains to Cal. 50 Machine Gun. P/N C5504080, a small arms part. This assembly consists of numerous parts. Machining parts and physical properties required on components. FSN 1005-550-4080. No Security Clearance is required to obtain this APPI. USAFEC.

APPI No. WE-247. Cover, Canvas Overall, M120. P/N 7134630. This is a canvas cover for a 155 MM Gun. Manufacture must be in accordance with MIL-C-10632. Assembly regulations exist. FSN 1025-713-4630-C039. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-248. Handle Assy, Rod Cleaning. P/N C7266115. A small arms part. This assembly consists of a swivel, handle and 2 pins. Machining and physical properties exist on component parts. FSN 1005-793-6761. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-249. Pin, Firing. P/N D6008879. A small arms part. A machined part made of steel. Heat treatment required and also final protective finish required. FSN 1005-600-8879. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-250. Holster, Hip for .45 Cal. M1911A1 Pistol. P/N 7791466. A small arms part. Consisting of several component parts. Made of dyed leather that will not rub off. FSN 1095-592-8491. No Security Clearance is required for this APPI. USAWECOM.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated March 7, 1967 page 2 No. PSA 3778 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AT-127. Stand, Maintenance, Automotive Engine. The ORD 7950189 stand assembly is used to support an engine during rebuild or repair operations. This stand assembly has following basic characteristics: (a) castor mounted (b) floor lock assembly (c) 2600 lb rated capacity (d) 50 in. wide, 45 in. high, extensible to 110 in. long (e) accommodates in-line engine. Basic materials are steel pipe, fittings, plates and common hardware. SNL APP-Multiple. FSN 4910-795-0189. No clearance required to obtain APPI. USATAC.

APPI No. AT-128. Mounting Kit M14 Rifle. The ORD 8712407 kit assembly is used for mounting the M14 rifle in an upright accessible position in the drivers compartment of military wheeled vehicles. This assembly consists of following components: (a) brackets (b) spacers (c) catch assembly (d) reinforcement (e) common hardware. SNL APP-Multiple. FSN 2590-045-9611. No clearance required to obtain APPI. USATAC.

APPI No. AT-129. Inner Tube Pneumatic Tire, Truck & Bus, 9.00x20. The MS-35392-13 inner tube is a major component of the traction system for the 2 1/2 ton wheeled vehicles. This assembly has following characteristics: (a) size 9.00x20 (b) type TR & Hux (c) valve TR-175A. SNL APP-Multiple. FSN 2610-269-7383. No clearance required to obtain APPI. USATAC.

APPI No. AT-130. Brake Cylinder Wheel. The ORD 8720473 cylinder assembly is a major component of the brake system for a 12 ton cargo trailer. This assembly has following components: (a) air chamber (b) diaphragm (c) springs (d) push rod (e) seals (f) yoke (g) common hardware. SNL APP-G750 BB M127AIC. FSN 2530-678-3332. No clearance required to obtain APPI. USATAC.

APPI No. AT-131. Battery, Dry Charged, 12 Volt, Type 21H. The MS-35000-1 battery assembly is used for starting, lighting and ignition purposes for wheeled and tracked military vehicles. This assembly has following characteristics: (a) automotive series (b) 12-volts (c) 6-cell (d) 45 amp-hr rating. This assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative plates (d) active grid paste (e) separators (f) connectors (g) covers (h) vent plugs (i) terminal posts (j) baffle plates (k) battery hardware. Specification MIL-B-11188. SNL APP-Multiple. FSN 6140-057-2553. No clearance required to obtain APPI. USATAC.

APPI No. AT-132. Battery, Dry Charged, 12 Volt, Type 4-D. The Ord 572655 battery assembly is used for starting, lighting and ignition purposes for a wheeled military vehicle. This assembly has following characteristics: (a) commercial series (b) 12-volts (c) 6-cell (d) 150 amp-hr rating (e) mfgs type designation GB-19-D-12E. SNL APP C13B-J4C 14 Ton 4x4 (MAP). FSN 6140-184-3400. No clearance required to obtain APPI. USATAC.

APPI No. AT-133. Battery, Dry Charged, 6 Volt, Type 2H. The ORD 500902 battery is used for starting, lighting and ignition purposes for wheeled and tracked military vehicles. This assembly has following characteristics: (a) standard series (b)

6-volts (c) 3-cell (d) 120 amp-hr rating. This assembly consists of following components: (a) hard rubber or plastic case (b) positive lead plates (c) negative plates (d) active grid paste (e) separators (f) connectors (g) covers (h) vent plugs (i) terminal posts (j) baffle plates (k) battery hardware. Specification MIL-B-11188. SNL APP-Multiple. FSN 6140-050-0902. No clearance required to obtain APPI. USATAC.

APPI No. AT-134. Parts Kit, Drag Link Steering. The ORD 5703302 drag link kit is a major replacement component of the steering linkage for the M151 1/4 Ton 4x4 vehicle. This assembly consists of following components: (a) cotter pins (b) nuts (c) seals (d) lubrication fittings (e) idler arm nuts (f) rod ends (g) link. SNL APP G838. FSN 2530-973-1388. No clearance required to obtain APPI. USATAC.

APPI No. MI-68R1. Overpack for Missile and other components—Structure consisting of a wire-bound wooden box, with 3 sets of internal intermediate wooden cleats for suspension media retention. Suspension Media consisting of 3 Polyethylene Foam saddles and 2 Polyethylene Foam end pads, separated from both ends of the missile by a 3/8" thick plywood platen. No security clearance required to receive this APPI. USAMICOM.

APPI No. MI-89. Launcher, Zero Length, Guided Missile, XM78E3 P/N 9098880 is a mobile supporting device from which the HAWK Missiles are aimed and fired. From one to three missiles may be fired from the launcher without reloading. The major assemblies of the Launcher are: a. Boom elevation actuator group—The boom elevation group is a hydraulic device which elevates or depresses the boom. b. Boom—The boom, rotatable in elevation, supports and secures from one to three missiles in the firing position. Electronics and hydraulic components are contained within the boom. c. The Boom Support—The boom support, rotatable in azimuth, provides support for the boom. Hydraulic components are mounted under the boom support which is raised by a hand-operated hydraulic system. No security clearance required to receive this APPI. USAMICOM.

APPI No. MI-81. Pallet, Loading and Storage, XM1E1, P/N 9196208 is a metal structure upon which from one to three assembled HAWK Missiles may be stored. It is normally mounted on a trailer and consists of three missile support arms joined to two skids with supporting structural members and two index fitting assemblies. Each missile support arm has its own missile latching and clamping assemblies. The pallet is constructed to be air transportable with missiles emplaced. The weight of the pallet is approximately 950 pounds. No security clearance required to receive this APPI. USAMICOM.

APPI No. WE-26R1. Section, Cleaning Rod, P/N 7266109. This is a component part of the .30 Cal. cleaning rod. It is a machined part made of carbon steel. Heat treatment is not required. FSN 1005-726-6109. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-221R1. Mechanism, Assy, Elevating P/N 5574521. A part of the Mount, Tripod MG Cal. 50 M3. This assembly requires that the Manufacturer have adequate machining facilities. Testing equipment required for component parts. Considered moderately difficult to manufacture. FSN 1005-557-4621. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-251. Housing, P/N 8403261. This is a component part of the M79 and M92 Mount. It is a machined part of alloy steel, Fed Std. 66. Gear cutting facilities are required for the manufacture of this part. Certain physical properties exist at this part. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-252. Housing, Assy, Trigger, P/N 7269203. This is a part for the 7.62MM machine gun M60. It consists of 1 Frame Assy, 1 channel, and 4 Rivets. Machining parts are required and a protective finish must be applied after assembly. FSN 1005-608-5176. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-253. Trigger, Assy, P/N 7269212. This is a small arms part for the 7.62MM Machine Gun, M60. It consists of a trigger, pin and spring. Machining of parts is required. FSN 1005-608-5185. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-254. Slide, Traversing Assy, P/N 7144232. This is a part of the M24A1 Mount. It consists of several parts which will require superlatives exist on components and certain requirements exist at the assembly of components. FSN 1015-714-4232. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-255. Knob, Windage, Rear Sight, Assy, P/N C7312737, a small arms part. Used on .30 Cal MI and 7.62MM M14 Rifles. This assembly consists of a knob, a ring, a nut, and a windage allowance. When assembled to the rifle, the knob must be capable of being operated by

the fingers. Material is steel. FSN 1005-73 No Security Clearance is required to obtain APPI. USAWECOM.

APPI No. WE-256. Bearing, Ball Thrust, 840-3009. This is a part for the M79 and Mounts for the 106MM Rifle. It is made of E52100 Spec QQ-S-624. Heat treatment is required in manufacture of this part. FSN 1015-840 No Security Clearance is required to obtain APPI. USAWECOM.

APPI No. WE-257. Guard, Hand, P/N 77 This is a part for the Rifle 7.62MM, M1 consists of two parts, the wooden hand guard a steel band. There are definite requirements the lamination of the hand guard. Heat treat is required on the band. FSN 1005-856-2108 Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-258. Bolt, Breech, P/N 775 This assembly is for the machine gun Cal. 50 and consists of several parts. Suppliers must adequate machining facilities and be able to duct standard high pressure test cartridge fit FSN 1005-857-0023. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-259. Pin, Firing, Belt Assy Br P/N 11010376. This is a part of the 7.62MM rifle gun. It is a machined part made of Fed. Spec. QQ-S-624. Heat treatment is required with a finish grind after heat treatment. Shot 1 ing required in accordance with MIL-S-13165. 1005-872-4443. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-260. Brush, Chamber Clean P/N 8432358. This is a small arms part used on M16 Rifle. It consists of a core, wire, and a There are certain material and test requirements in the manufacture of this item. FSN 1005-1435. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. WE-261. Rod Cleaning, Small A P/N 1168455. This rod is used on the Rifle 5.56 M16. It consists of a handle Assy, 2 rod sect and a swab holder. Rod sections and swab holder shall be assembleable by hand. All machining p require a protective finish. FSN 1005-999-2035. Security Clearance required to obtain this APPI. USAWECOM.

APPI No. WE-262. Combination Tool, 1 7790769. This is an accessory for Rifle 7.62M M14. It consists of a handle, extension, head, pins and a blade. Machining of parts is required. A protective finish must be applied. FSN 4933-7 0211. No Security Clearance is required to obtain this APPI. USAWECOM.

APPI No. AV-170. Generator Set, Gasoline engine driven, 3KW, 28V, DC, wheel-mounted, speed for aircraft engine starting. In accordance with military specification G-52428. FSN 6115-475-002 No clearance required to receive APPI. USAWECOM.

APPI No. AV-171. Regulator, Voltage, 30 Vol aircraft direct current generator, Appl., multiple aircraft. This item is a qualified product item Interested concerns should have their product tested and approved in accordance with QPL 6809. Contract Wright-Patterson Air Force Base, Ohio. FSN 6110-373-8691. No clearance required to receive APPI. USAWECOM.

APPI No. AV-172. Modification Kit, Personnel Armor, Appl., CH-47 helicopter. AVCOM drawing 1560-CH-47-300 applies. FSN 1680-947-9829. No clearance required to receive APPI. USAWECOM.

APPI No. AV-173. Slider, Tail Rotor Shaft. Splined attachment, 4140 steel. Appl., UH-1 helicopter. AVCOM drawing 204-010-720 applies. FSN 1615-859-6111. No clearance required to receive APPI. USAWECOM.

APPI No. AV-174. Bolt, Tie Bar Outboard. Rotary wing head, corrosion resistant stainless steel, size 8 in. L., 3/4 in. dia. appl., CH-47 helicopter. FSN 5307-739-5544. No clearance required to receive APPI. USAWECOM.

APPI No. AV-175. Tank, Hydraulic Fluid, Aircraft, Appl., CH-47 helicopter. Identification by these part numbers only: Vertrol P/N 1141S1642. Adel Division P/N 416220. FSN 1650-050-8349. No clearance required to receive APPI. USAWECOM.

APPI No. AV-176. Resistor Assembly, Used in conjunction with control assembly, Appl., CH-47 helicopter. Vertrol P/N 11412032-3 is only identification available. FSN 5905-907-3866. No clearance required to receive APPI. USAWECOM.

APPI No. AV-177. Indicator, Pressure, Dial, 1 torque pressure scale, 0 to 50 PSI, 1 PSI graduated increments, finish of graduations, fluorescent letters, numerals and lined increments, pointer data, clock hand type, fluorescent illuminated, incased, without 400 cycles, single phase, connection data, electrical, 2-5/8 in. L., 2 in. dia., clamp mtg., MIL-1 QPL Item. Interested concerns should contact Oklahoma City Air Material Area (OCNEC), Oklahoma, in order to have their product tested

APPI No. AP-34R-2. Projectile 4.2", M328 Smoke is made up of basically 6 components. Body, the prime component, is approx 16" L and is made of steel, non-repassurized, special bar quality. Specification ASTM A107. The Body is tubular in shape with a closed end actually forming the base, with a diameter of approximately 4.2". The base of the body has a protruded, threaded boss approx 1" in diameter, 1/2" L. The Body indicates a forging process. The Vane is a metal stamping, approx 13-1/4" L, and 1/16" thick, made up of steel strip, cold-rolled, temper number 4, finish number 1, ASTM Specification A109. The stamping consists of 16 holes and notches and the center section forms a circular holder for a burster casing. The ends of the short dimension of the stamping are formed in an "S" pattern. The Nose Adapter is of the same material as the body and is forged in a funnel type shape with a length of approx 2" and max D of 2-7/8". It is threaded on the large diameter bore and there are several machine steps internally with a minimum wall thickness of 1/4". The Burst Case is approx 13-3/4" L x Max D of 1-3/16" min D of 7/8". The material used is steel bar cold-finished, non-repassurized, ASTM Specification A108 with several alternates allowing steel carbon plate, steel sheet and strip, and steel tubing, seamless. Alternate materials require silver brazing. This component is considered difficult to produce to specifications. The assembly of the metal

APPI No. AP-91R-I Fuze, Grenade, Hand Practice, M20SA2 (Loaded) This item consists of (11) components and (5) assemblies. Body, approx 2.3" H x .81" W x 1.7" L, mail, zinc base alloy die casting, AC40A or AC41A, ASTM B86 or aluminum alloy, die casting, ASTM B85. Lever, formed shape approx 4.0" L curved section by right angled tip section approx 1.7" L x 24 Ga thick, mail, stl, std. CR, temper 3. Pull ring Assy (2) components,

AP-111. Projectile. 81mm. Illuminating. M301A2 consists of 4 assemblies and 6 additional components. 14.335" L x 3.18" max D. cup and disc assembly. 3 components, cup, pull-cord. 2-1/8" D x 5/8" H x .021" wall thickness, material, boxboard sheet, Spec. MIL-B-20467, Disc, coupling. 2.966" D x .067" thick. 4 point star embossed in center with eyelet center hole, material, steel strip, temper No. 2. Spec ASTM-109, Eyelet, rolled flange. 1.43" D x .185" H x .012" thick, procured from Edwin B. Simpson, part No. A557, alternate United Shoe Machine Co., part No. SE66. Cup, parachute (2 each) cup segment. 2.76" D x 1/2" D x 1.76" W with V notch near center line on straight edge of segment, material, boxboard sheet, Spec. MIL-B-20467, Disc, parachute. 2.84" D x 1/16" thick, material, chipboard, sheet, Class 2, Spec. UU-C-282 Pin, shear (4 ea.) 1/8" D x .24" L with cone shaped point .07" L, material, wire, brass, quarter hard, alloy No. 6, Spec. ASTM-B134 alternate brass, rod, quarter hard, Spec. ASTM-B16. Spacer, (2 ea.) parachute, circle segment. 1.459" radius x 1.455" H x 2" W, material, strip, temper No. 2. Spec. ASTM-A109, Plug, effective, product of Protective Closure Co., Ca No. DWH-12-060 or approved equal, Plug, effective, National Aeronautical Standard, NAS 75. Projectile. (4) components, Tube, body 9.1 x 3.138" D, with varying D, material, steel tub seamless, Spec. QQ-T-830, Adapter, 3.13" OD to flange, 2.945" body OD x .625" W, with 2-4-18 internal thread, material, steel bar, Spec. ASTM-A108, Cone, tail, 3.16" max OD reduced to 1.14 D opposite end with 1.8" 16 NS thread, varying wa thickness, material, steel bar for hot forge, Spec. ASTM-108, alternate, steel, Spec. MIL-S-11310 for cold forming process, Pin, adaptor, .25" L x .125" D with tapered end, Material, steel, bar, 1010 to 1020, Spec. ASTM-A-108, Illuminant Assembly, 12 components, 5-5/16" L x 2.835" D, Case loading assembly, support, charge, 2.43" D x .03" thick with .38" center well, 12" D, material, steel, strip temper 4, Spec. ASTM-A-109, Case, 2.835" D x 5-5/16" L x 2-7/16" ID, material, boxboard, sheet, Spec. MIL-B-20467, Charge, First fine composition, one increment, Illuminant composition, increments, fire clay end seal, Disc, top, 2.82" x 1.16" thick, material, chipboard, sheet, Class 2, Spec. UU-C-282, Disc, Quickmatch 2.915" D x .075" thick, material, steel, temper No. 1 Sp. ASTM-A109, Spacer, Quickmatch 2.932" D x .3" thick, material, felt, hair, sheet, Spec. MIL-F-1353, Ring, Filler, 2-7/32" D x 1/16" thick with 1 center hole, material, wood soft, commercial alternate, plywood, commercial, Sleeve, oval, 3/72 L x 226" W x 7/16" thick, material, copper, zinc plated, commercial, procurable from National Telephone Supply Co., micropress oval sleeve Part No 28-2-G, Suspension Wire Assembly, Cable, steel preformed 3/32" D, 7 x 19, commercial galvanized approx. 28 1/2" L military standard ball end locked on end of cable and 750 pounds tension test applied to the assembly, Cup, Suspension 2.44" OD x .75" W with 37" diameter center spherical well, material, steel strip, temper No. 2, Spec. ASTM-A109, Disc, 2.915" D x .12" thick 4 point star embossed in center with cable center hole, material, steel, strip, temper No. 2, Spec. ASTM-A109, Rivets, six military standard, Nails 6 No. 18 x 1/2" L, flat head, steel, commercial Quickmatch, type II, Class A, 3 required, Approx. 6" L Sae, JAN-O-378, parachute Folding Assembly, 43" across point to point of parachute Disc, separator 2 7/8" D x 1/16" thick material chipboard, sheet, Class 2, Spec. UU-C-282, Parachute Assembly, 3 components, Gore, (8 ea.) bars equals 20", equal sides cut to triangular point 24" base to point (equilateral triangles) Crown, 3 D, material, gore and crown, Parachute Cloth Type D, Spec, PA-PD-76, stitched with nylon thread Spec. MIL-T-7807, Shroud lines, (8 ea.) approx. 45

reinforcing, 2 1/4" W. cloth roll, length as required line shroud, 126 glass fiber sleeving, Cord, shroud (8 each), 99" L. material, glass fiber spool, braided cord, commercial. Segment, parachute, (16 each) material, cloth, balton finished, cut on bias, Plate, shroud, 3" OD x 16" thick with center holes and 16 shroud holes, material, aluminum alloy bar, 2024-T4, or sheet 2024-T3, Parachute Holder Assembly, 5" D x 5-3/8" H. material, sheeting, cotton, Type 5, Class 1 and bottom with tab, eyelets, pull cord, Miscellaneous closing plug, tower support, split washers, parachute wrapper. Manufacturing firms bidding this item should have a technical staff consisting of engineers, chemists, technicians, metallurgists and tool design engineers to design and maintain precision tools to produce this item by mass production methods. This item has pyrotechnic composition and is considered extremely difficult to manufacture to government specifications. No clearance required to receive APPI. AP-USAMUCOM.

APPI No. AP-114. Case, Projectile Burst. M15 One piece design, approx. 20" L x 3 3/8" D, 2" ID with .133 final wall thickness, .27" thick closed base, and one open end finished to close tolerances, material, steel. Specifications OO-S-635 or alternate material, steel. Specification MIL-S-11310. Alternate design, two-piece Plug, 2.238" D x .273" L overall, stepped to 2.01" D x .131" L on one end, material, steel, bar, CD. Specification OO-S-633. Sleeve 19.96" L with 2" ID bored to .2012" for plug on one end, open end finished to close tolerance material, steel, tubing. Specification QQ-T-850 fabricate with silver brazing alloy. Specification QQ-B-00655. Each case wrapped in VCI paper 23.1/4" x 9.1/4", material, volatile corrosion inhibitor paper Type I, Class 2, Style C. Specification MIL-P-3420, type closed, varnish and bake. Each case must withstand a helium test. Exterior is surrounded with one atmosphere of helium, a maximum of 20 microns of mercury absolute pressure maximum leak permitted is 1 x 10 minus 6 cubic centimeters per second. This item is considered difficult to produce to specification requirements. No clearance required to receive APPI, AP-USA, MUCOM

APPI No. AP-115. Projectile, 155mm, Illuminating, M485 consists of (1) Metal Parts Assembly, (2) Expelling Charge Assembly, (3) Parachute, Drogue and Canister Loading Assembly, and a number of individual components. (1) The Metal Parts Assembly consists of (a) a Body made from steel, carbon, billets for forgine. Spec ASTM A273, 1050, 23.32" L 6.092" max OD with rotating band seat and obturating band seat, tensile strength 20,000 min., yield point 100,000 min., (b) Plug, base made from steel; grade composition 1045, ASTM Spec A108, 5.38" max OD x 1.02" W, (c) Rotating Band Hanger, gilding metal, Class B, Spec. MIL-B-20292, 6.116" ID x 6.60" OD x 1.07" L, (d) Band Obturator, material centrifugally cast clear aluminum, composition A, type I, Spec. MIL-M-20693, 9.92" ID x .175" wall thickness x .375" W (2) The Expelling Charge Assembly is made from (a) the Cover, Expelling Charge 1.90" D x .020" thick plastic polyethylene, sheeting, type I, Class L, grade I, Spec. L-P-512 (b) Cup, Expelling, Charge, 1.60" D, L-P-148 ID at mouth with .025" wall thickness with flanged end; material, plastic, polyethylene, Type I, Class L, grade I, Spec. L-P-512. (3) The Parachute, Drogue and Canister Loading Assembly consists of (a) Parachute, Drogue, 1.90" D made from 2 crowns, 6 gores, 13 oval sleeves, 15 eyelets, and 6 shroud lines, (b) Shroud, 1.90" max L, wire rope, steel, MIL-W-1511, .125" D, (c) Canister Loading Assembly consists of (1) Canister Metal Parts Assy which includes 1025 ASTM-A519, 14.62" L x 4.55" max OD x .257" ID, (b) Fin 9.69" L x .022" thick curved 2.219" radius, made from steel, strip, cold rolled, No. L temper, Spec. ASTM-A109, (c) Nose, Canister, Steel, grade 1015 to 1020 ASTM A107, .108", 1.19" max L x 4.250" max D with 1.910" center hole; held to the canister with (d) Pins, Shear, steel, bar, round, cold finished, comp. 1117, ASTM-A108, .38" L x .188" D, (e) base, Canister Assembly consisting of Base, Canister (2) material, steel, bar, cold finished, comp. 1020 9r 1025 per inch thick, semicircular center hole of .472" diam, Swivel, Canister Assembly consisting of a Swivel, Housing, swivel; Pin swivel; 11 ball bearings (2) Delay Holder Loading Assembly made of (a) Delay Holder loaded with 2 delay trains of 5 increments of (b) Powder Ignition, Gasless, Composition MIL-M-21383 (2nd-4th increments) (c) Black Powder, MIL-P-223 (5th increment) (d) The holder is screwed into the nose, canister, beneath the delay trains is located an (3) Expelling Charge Assembly, Secondary loaded with 10.6 grams of black powder, MIL-P-223 class 6 glazed and 7 thin the Metal Parts assembly is the (4) Parachute, Drogue and Canister Loading Assembly consisting of (a) Parachute Main 100 inch made from

APPI No. EA-6R1. (Revision No. 1 to APPI Release No. 6, 6 Apr 1955) Agent, Riot Control, CSI (Chemical Name: O-Chlorobenzylmalononitrile) CSI is a white crystalline powder. It has a minimum purity of 96 percent, is insoluble in water and ethanol but soluble in methylene chloride. The pure crystalline form (identified by symbol CS) is used as filling for burning type grenades and munitions. A mixture of 95 percent of the crystalline agent and 5 percent of silica gel aerogel (identified by symbol CSI) is used as filling for gaslight-type grenades and in bulk irritant agent dispersers. This Irritant Chemical Agent will cause severe and not permanent physiological effects such as extreme burning of the eyes, coughing, difficulty in breathing and chest tightness. Heavy concentrations will cause nausea and vomiting in addition to the above effects. Protection required is provided by protective mask and clothing. No security clearance is required to obtain APPI EA-USAMUCOM.

APPI No. FA-54, Ball Bearing Actuator Assy.
 JN FD208042. This motor device actuates the
 M8 Remover. This is component
 of the M8. Drawings and specifications for
 the item will be available at the time of solicitation.
 Projected quantity is 75 devices required.
 Delivery being nine months after the date of award
 of the device. No security clearance is required
 to receive the APPI. There is no Government
 furnished Property requirements or Technical
 manual requirements connected with the procure-
 ment of this item. FA-USAMUCOM.

It is a projectile used for target practice by U.S. Air Force in their M39 and M61 Guns. The planned procurement quantity is 7,000,000. The price schedule is 100,000 per month--first delivery being eight months after the date of award of the contract. Drawings and specifications for the item will be available at the time of solicitation. No security clearance is required to receive this information. There is no Government Furnished information requirements or Technical Manual requirements connected with the procurement of this item.

PI No. EL-153. Teletypewriter Set AN/GOC.
Receives and sends messages on tape. No se-
curity clearance required to obtain APPI. USAF.

APPI No. EL-154. Distributor-Transmitter Set. Teletypewriter AN/GGC-9 and AN/GGC-9C. Used for duplex one-way transmit operation of teletypewriter. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-155. Radio Set AN/GRC-50C (V). A complete, compact, rugged, lightweight radio relay set whose major operating components may be used either as a terminal or modulation frequency patch repeater for intermediate or forward area systems. The radio shall provide simultaneous two-way (duplex) transmission over eight jumps in tandem. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-156. Radio Set AN/GRC-143C. Utilizes the tropo scatter mode of propagation to transmit 12/24 audio channels by frequency division multiplexing or 12/24 audio channels by pulse multiplexing. Dual diversity with IF combining is used in reception to enhance circuit reliability. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-157. Radio Set AN/GRC-144C. Utilizes the line-of-sight mode of propagation to transmit up to 120 audio channels of frequency division modulation traffic or up to 96 audio channels by pulse code modulation. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-158. Message Center AN/GSQ-80. Provides complete facilities for receipt, sorting and distribution of mail as well as providing other message center functions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-159. Radio Set AN/MRC-95 and AN/MRC-95C. A high frequency, Mobile Radio Set that provides reception and transmission of radio frequency within 2 to 29,999 mc freq. range. Provides direct reading frequency control in 1-KC increment throughout the frequency range. Tuning, including antenna circuits, is fully automatic. Modes of operation furnished includes upper or lower sideband, compatible AM voice, CW telegraph. A mobile radio set. Provides reception and transmission of radio frequency signals within the frequency range of 2 to 29,999 mc. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-160. Operations Center, Communications AN/MSC-31A. A field communications operations office required by the signal operations officer to plan, engineer, and control an area-type communication system. Designed to be transportable by air or vehicle. NOTE: One way interchangeable with previous versions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-161. Operations Central AN/MSC-32A. A field communications operations office required by the signal operations officer to plan, engineer, and control an area-type communication system. Designed to be transportable by air or vehicle. NOTE: One way interchangeable with previous versions. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-162. Radio Set AN/PRC-62C. A man packed set which provides communication between combat units operating in jungle, desert or other areas. The set is continuously tunable in one (1) kc steps over the frequency range of 2 thru 29,999 mcs, thus providing 27,999 channels. This equipment is capable of operation while being transported. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-163. Radio Set AN/PRC-74C. Contains the receiver-transmitter and necessary accessories for providing a man-pack portable single sideband medium high frequency receiver transmitter. It provides single sideband (SSB, USB) voice and tone modulated telegraphy (CW) transmission and reception in the frequency range of 2 to 11,999 mc in 1 kc steps. Rated power output is 15 watts peak envelope power (PEP). No security clearance required to obtain APPI. USAECOM.

APPI No. EL-164. Radio Terminal Set AN/TRC-80 and AN/TRC-80C. Provides duplex FM communication of one voice and one teletype channel by means of tropospheric scatter, diffraction, obstacle refraction or line of sight transmission. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-165. Radio Terminal Set AN/TRC-90A. Provides full duplex FM SHF communication with the capability of 24 4KC voice channels, 16 full duplex narrow-band TTY channels, one 3 KC voice and TTY service channel and a HF radio capable of accepting one voice frequency channel. Propagation is by means of tropospheric scatter, diffraction, obstacle refraction or line of sight transmission. 2W/4W capability and 20 cycle ringers are available for all 24 channels.

NOTE: One way interchangeable with AN/TRC-90. AN/TRC-90A has ring through capabilities and 2W/4W capabilities for all 24 channels. Components differ. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-166. Radio Set AN/TRC-103 and AN/TRC-103C. Capable of multi-channel full duplex operation in the specified base-band spectrum of 12-1300 kc in the frequency range of .755 to .985 gc, using either troposcatter or line of sight propagation. No security clearance required to obtain APPI. USAECOM.

APPI No. EL-167. Radio Terminal Set AN/TRC-129 and AN/TRC-129C. Provides full duplex FM SHF communication with the capability of 24-4 kc voice channels, 16 full duplex narrow band TTY channels, one 3 kc voice and TTY service channel and an HF radio capable of accepting one voice frequency channel. Propagation is by means of tropospheric scatter diffraction, obstacle refraction or line of sight transmission. 2W/4W capability and 20 cycle ringdown is provided for all 24 channels. The set has the capability of being connected in quad space, frequency diversity or dual space diversity. NOTE: One way interchangeable with AN/TRC-90 or AN/TRC-90A, similar to AN/TRC-90B but not mechanically, functionally interchangeable. Basic radio and multiplex equipment is identical to the ANTRC-90B, except that the modules for the E and M signaling, and 48 channel options in the multiplex are not supplied. The antenna is the same as that used in the AN/TRC-90A. Functionally the system performance over a circuit does not match that of the AN/TRC-90B because of the difference in the antenna sizes. This system is not mechanically interchangeable with the AN/TRC-90B because of different methods of storage and transportation. No security clearance required to obtain APPI. USAECOM.

APPI No. ME-1R2. Laundry Unit. Trailer Mounted. This is a complete self contained field laundry unit mounted on a 2 wheeled trailer with a capacity of 120 pounds (dry weight) of laundry per hour, equipped with an air compressor, washer extractor assembly, water heater, water pump, drying tumbler, and a gasoline engine drive generator set. Air compressor shall be electric operated 208 volts, 60 cycle, 3 phase. Washer extractor assembly shall be driven by a 50 degree C temperature rise squirrel cage induction motor, 5 1/2 HP, 1650 rpm, 208-230 volt, 60 cycle, 3 phase. Hot water heater shall be capable of maintaining a 70 degree F water temperature differential between the inlet and outlet water connections and equipped with a fuel pump capable of supplying fuel at 100 psi pressure with bypass valve closed and burner shall operate on propane without evidence of smoke. Air pump shall be a centrifugal, single stage, 3 1/2 inch diameter, 3 1/2 gpm, 65 to 70 feet total head, required net positive suction head shall be less than 4 feet when operating at 3450 rpm. Pump shall be driven by an electric motor, 3/4 HP, 208 volts, 60 cycle, 3 phase, 3450 rpm. Drying tumbler and air heater assembly when operated with gasoline, without garments and with thermostat set at 250 degrees F shall maintain this temperature within plus or minus 5 degrees. Washer motor shall be a 40 degree C temperature rise squirrel cage induction motor, 1 HP, 850 rpm, 208-230 volt, 60 cycle, 3 phase. Unless otherwise specified, the Government will furnish the following: A 2 wheeled trailer chassis, ORD model M-536, 2 1/2 ton capacity; A 10 KW, air cooled gasoline engine driven generator set, ac, 120-280 volt, single and 3 phase, 60 cycles, model SF10.0; Operational, maintenance and parts manuals. The unit is designed to take water from streams, rivers, lakes, etc. and heat it for laundering purposes. Unit shall be capable of decontaminating personal clothing from CW and BW agents and radio active materials. This complete mobile laundry unit is to provide laundry service to field units and hospitals. In accordance with MIL-L-0040635A. No security clearance required to obtain APPI. FSN 3510-753-2895. USAMEC.

APPI No. ME-6R2. Grader, Road, Motorized: Heavy duty, diesel engine driven, pneumatic tired, 6 wheeled, 4 driving rear wheels, 2 steerable front wheels, with leaning front wheels. Operable by one man for general construction work such as coarse and fine grading, low and high bank cutting, scarifying, and flat and V-ditching. Grader shall grade forward or reverse. All parts of the grader shall withstand the full power of the engine at all gear ratios and under all working conditions. Grader moldboard shall operate in all positions without blade chatter, weaving, rocking, or other actions not under complete control of the operator. Grader shall be furnished with a scarifier. When specified, grader shall be furnished with a winterized system, including a cab, that will permit efficient heating and starting, battery heating, personnel cab heating, window defrosting, and equipment operation at any ambient temperature from minus 65 degrees F through plus 125 degrees F. The nonwinterized grader shall perform in any ambient temperature from plus 125 degrees F to minus 25 degrees F. An industrial type diesel engine, including a 40 ampere generator, a charging receptacle for emergency starting and battery charging, a housing, fuel tank and governing system conforming to MIL-E-11276 shall be provided. Final drive shall be on the 4 rear wheels arranged in tandem, 2 on each side. Tandem frames shall be

mounted on a pivot about the driving axle so that the equal weight is carried on all 4 wheels when operating over rough terrain without affecting the evenness of the blade cut. Drive chains, sprockets, gears, and bearings in connection with the drives shall be fully enclosed in dust proof, oiltight housings. Tandem oscillation shall be not less than 20 degrees from the horizontal in either direction. Grader shall be equipped with a 24 volt electrical system, headlights, floodlights, taillights, blackout lights and reflectors. Moldboard assembly, including moldboard circle, the 12 ft lg hydraulic controlled blade, and adjusting mechanism shall be attached to the frame by a swivel hitch. A pintle hook conforming to MSS1118 shall be affixed to the rear of the grader and a tow hook shall be affixed to the front. Commercial standard wheels and rims shall be used and tires shall conform to Federal Specification ZZ-T-381. Lifting and tiedown attachments shall be provided. Repair parts, maintenance tools, and accessories shall be included with the shipment of grader. Before assigning any welder to do manual welding work, contractor shall provide certification that welder has passed approved qualifications tests. Graders are intended to be used primarily for construction. In accordance with MIL-G-804C, Amendment 1, Type 1, Size 3. FSN 3805-261-5826. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-7R2. Crane-Shovel, Truck Mounted 20 ton, two engine drive 3/4 CU YD shovel capacity, 3/4 CU YD backhoe capacity. The crane-shovel shall consist of a revolving power unit superstructure with front end operating equipment mounted on a heavy duty, truck type carrier. Revolving superstructure shall be convertible for use as a crane, clamshell, dragline, pile driver. Conversion to any of these uses shall be effected without the use of special tools and without the installation of additional shafts, drums, clutches or parts. Each crane-shovel shall be complete in all details. Crane-shovel shall disassemble into units that can be transported by air or rail. The overall dimensions and weights shall be 60,000 lbs. max. GVW, 120 ins. max. width, 150 ins. max. height, 27 ft. max. length chassis. One engine shall be provided to operate the carrier, another engine shall drive the revolving superstructure. Both engines shall be industrial type gasoline engines conforming to MIL-E-11275, group II, except the generators and voltage regulator shall conform to MIL-G-46795. A separate electric cranking system shall be provided for each of the engines. Two 24 v electric systems shall be provided, both systems shall be completely independent of each other and interconnecting between the two systems shall be possible. Crane-shovel shall be capable of towing military M345 trailer loaded to a gross weight not less than 30,000 lbs. Wheel drive shall be powered from engine through gear driven axles (three axles, with two rear (tandem) axles and single front axle, six wheels, six driven wheels, two steerable wheels. A pintle hook shall be mounted on the rear and a towing attachment on the front of the crane. A water cooled, engine lubricated, 12 cfm at 1,250 rpm, air compressor of the automotive type driven by the engine shall be furnished. Headlights, parking and tail combination lights, hand running lights, blackout lighting turn signals, hand reflectors shall be provided. When specified, crane shall be winterized. Lifting and tiedown attachments shall be provided. Before assigning any welder to manual welding work, contractor shall furnish certification that welder has passed approved qualification tests. The crane-shovel, together with the various items of front end operating equipment, and intended for use in handling materials, lifting and transporting loads short distances soil stripping, earthmoving, ditch digging and pile driving. In accordance with MIL-C-10466D Type A class 1, size 20. FSN 3810-554-4103. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-11. CANCELLATION OF APPI APPI NO. ME-11, Searchlight, DC, 28 V, 100 AMI Xenon Type, published previously in the 1 Jun 1965 issue of Commerce Business Daily is hereby cancelled by USAMEC.

APPI No. ME-19. CANCELLATION OF APPI APPI NO. ME-19, Metascope Assy Image, Infra Transistorized, published previously in the 6 Jun 1965 issue of Commerce Business Daily is hereby cancelled by USAMEC.

APPI No. ME-26R2. Ponton Boat. Half Section aluminum hull, overall dimensions of hull 18 ft 5 in. long, 6 ft 8 1/2 in. wide, 34 in. height, 13,200 lb. capacity. In accordance with MIL-P-52200A ar Dwg No. D7899-1 thru 26. FSN 5420-542-4729. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-42R2. Tank, Fabric, Collapsible Water, nylon, rubber coated, 3,000 gallon. Material shall not impart taste or odor to chlorinated water shall have no adverse effect on the health of personnel. Complete list of the ingredients, and concentration of each to be used in product formulation shall be submitted to contracting officer 30 days prior to production. In order to determine the acceptability of the rubber formulation from toxicological viewpoint, Nylon cloth shall be

APPI No. MI-35, Improved HERCULES Modification Kit consists of a Target Ranging Radar Antenna mounted on GFE 4 wheel flat bed trailer, weighing 12,800 lbs; Radio Frequency Detector weighing 12 lbs; Auxiliary Acquisition Cabinet (Control-Interconnection Group) weighing 225 lbs; Target Ranging Radar Control Receiver-Transmitter Cabinet weighing 830 lbs, plus additional hardware kits. No Federal Stock Number assigned. Synopsized to afford sub-contracting opportunities only. Inquiries should be made direct with Western Electric Co., Burlington, N. C. Confidential Clearance required to obtain this APPI. USAMICOM.

APPI No. MI-37, Shelter Electronic Test Group #3, as defined by Missile Interim Specification MIS 5707, Rev 3. This shelter is for use as a part of Multi-System Test Equipment (MTE) to provide protective and operating facility for missile electronic test equipment, repair equipment and technicians. Outside dimensions: L. 163 in., W. 83 1/2 in., H. 87 in., Gross weight: 1850 lbs (Max). Laminated foam aluminum construction. Due to changes and updated information, this APPI cancels and supersedes MI-COM APPI No. 1. Confidential Clearance required to obtain this APPI. USAMICOM.

APPI No. MI-38, Shillelagh, Container Assembly, shipping and storage, guided missile are containers used in packing 152mm missiles and are designed to withstand all conditions encountered in handling, storing and transportation of missiles. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-57, Alignment Test Set, Transmitter, Shillelagh. This is an optical device (telescope) which is temporarily mounted on the transmitter to verify the mechanical alignment of the transmitter with respect to the telescope in sighting the target. No Federal Stock Number Assigned. Procurement may be a small business set-aside. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-58, Chaparral Missile Launch and Control Pallet mounted on GFE tracked vehicle with Organizational and Field Maintenance Shop Sets. The pallet is constructed as a self contained unit with a central gunner's turret with 4 launch rails, 2 on each side. The Launcher and Control Pallet is capable of being removed from the vehicle and temporarily mounted on other vehicles or on the ground. No Federal Stock Number Assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-59, Container for Redeye Launcher. The existing container is constructed of two .080" thick 6061 T4 aluminum shells, top and bottom, which are closed with 10 cam latches. The shells have 15 internal supports which provide rigidity and hold the Redeye Launcher in place. The supports are constructed of 6061 T4 aluminum and non-rigid polyurethane foam in accordance with Spec MIL-P-26514 type II class 2. The container possesses a permanently attached gasket, must be watertight when closed, must meet environmental test MIL-E-5272, and withstand a temperature range of -65°F to +180°F. Overall dimensions of the container are 54.5" long x 15.5" wide x 12.5" high. While this design is acceptable it is not final. Design proposals to reduce weight and cubage of the container without sacrificing protection are solicited. No Federal Stock Number assigned. Procurement may be a small business set-aside. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-66, The Forward Area Contact Support Set (FACSS) (Shillelagh Missile System) includes a Transmitter Beam Pattern Analyzer, Guidance Set Group Analyzer and an Accessory Case, each contained in a waterproof case. The FACSS is used to perform the functions of measuring transmitter beam intensities, ratio of beam intensities and fault isolating a removable major item of the Shillelagh Guidance Set Group installed in the Sheridan or M60 A1E1 vehicle. No Federal Stock Number assigned. Requirements for fiscal year 67 are for sub-contracting opportunities only and request for additional information should be directed to Aerodynamics Inc., Newport Beach, Calif. Method of procurement for fiscal years 68 and 69 will be competitive negotiation. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-68, Overpack, Missile, Tow Missile System. Structure consisting of a wirebound wooden box, with 3 sets of internal intermediate wooden cleats for suspension media retention. Suspension Media consisting of 3 Polyethylene Foam saddles and 2 Polyethylene Foam end-pads, separated from both ends of the missile by a 3/8" thick plywood con-plate. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-69, Control Surface Actuators, Tow Missile System. Two position, linear-stroke, Helium-Gas operated actuators drive the missile control surfaces. Extension of the control surfaces from the folded position activates the system, releasing compressed gas from the storage bottle into a manifold. Variation in the dwell times at the ends of the stroke achieves the effect of proportional control surface deflection without the high cost of proportional deflection actuators. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-71, Tripod, Launcher, Tow Missile System. A folding tripod with adjustable legs provides a level and rigid base for the launcher. Tripod shall be of a durable and light weight material. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-70, Adapter and Stowage Kit, M274 Vehicle. Adapter hardware for mounting the Tow System on the M274 (Mule) Vehicle has existed for some time and considerable testing has been accomplished the adapter kit consists of the following items: Two saddles clamped across the bed support 5 spare rounds which are held in by quick-release metal bands. The Tripod carried crosswise of the vehicle forward of the spare rounds held by a quick-release metal band and a coupling flange. A pallet supporting a pedestal mounting the traverse unit, a coupling ring for the traverse unit, and a support for the electronic unit. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-72, Adapter and Stowage Kit M151 Vehicle, Tow Missile System. The M151 Adapter is a two jeep concept. The first or lead jeep will carry two crew members, a center mounted firing pedestal also stowage for the TOW Launcher traversing unit, electronic unit and two missiles. The two missiles are stowed in saddle brackets in the rear of the jeep. The Adapter Kit is easily mounted on the M151A1 or M151A1C with only minor modifications to the vehicles. The TOW can be either fired from the vehicle or dismounted by quick release fasteners to establish a ground mode configuration within the required reaction time. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-73, Adapter and Stowage Kit, M113 Vehicle, Tow Missile System. The M113 vehicle adapter is a stowage firing kit for the TOW Missile that can be installed in the field. It consists of a mechanical deployment mechanism for the TOW launcher and additional brackets and racks for storing the missiles and launcher equipment. The principal components of the deployment mechanism are a pedestal support rail assembly, pedestal support, and telescoping pedestal which facilitate deployment of the launcher to a firing position above the deck of the vehicle. No Federal Stock Number assigned. Confidential Clearance required to obtain APPI. USAMICOM.

APPI No. MI-75, Guidance Set for Launcher, Tow Weapon System. The guidance set provides facilities for battery installation, and contains the electronic circuits necessary to develop system operating and control voltages. An additional function is to electrically convert information developed by the sight/sensor and traversing unit into missile command link signals. The guidance set consists, primarily, of a chassis assembly, power supply, and six printed circuit cards which are installed in the chassis assembly. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, California. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-76, Container, Tow Weapon System. The Tow Missile container is a fiberglass/epoxy container that provides environmental protection for the missile during storage and hauling. It incorporates seals that are not broken until the moment of firing, allowing the missile to be unloaded from the launcher without loss of its environmental connection to the launcher are provided automatically as the container is loaded and locked into the launch tube. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, California. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-77, Traversing Unit for Launcher, Tow Weapon System. The traversing unit is an electro-mechanical assembly which is attached to the tripod during ground engagement. It provides mechanical support for the launch tube, sight/sensor, and missile as well as the necessary electrical connections between the launcher and missile. The traversing unit consists of a trunnion and bridge clamp, viscous damper, rate tachometer generators, and a trigger for actuating the electrical firing sequence. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, Calif. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. MI-78, Sight/Sensor Unit of Launcher, Tow Weapon System. The sight/sensor compares the instantaneous line of sight from the launcher to the missile with the instantaneous line of sight to the target. This comparison establishes the amount of correction required by the missile at any moment during the flight. The sight/sensor consists of an optical sight, an infrared sensor and associated electronic circuits including a preamplifier, boresight circuits, and a reference resolver. No Federal Stock Number assigned. This APPI is released for sub-contracting opportunities only. Prime Contractor is Hughes Aircraft, Culver City, Calif. Confidential Clearance required to receive APPI. USAMICOM.

APPI No. FA-57, Ball Bearing Screw Assembly P/N 10522056. This device actuates the canopy of the M8 Remover. This is a component part of the M8 Drawings and specifications for the item will be available at the time of solicitation. Projected quantity is 50 devices — required delivery being five months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirement or Technical Manual requirements connected with the procurement of this item. USA. MUCOM.

APPI No. FA-58, M8 Motor Canopy Remover FD20734 This motor device actuates the canopy of the M8 Remover. This is a component part of the M8 Drawings and specifications for the item will be available at the time of solicitation. Projected quantity is 50 devices — required delivery being eight months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirement or Technical Manual requirements connected with the procurement of this item. USA. MUCOM.

APPI No. FA-59, M27 Initiator. It is a device which ejects the aircraft's seat. This device is a mechanical operated firing mechanism, which is triggered by the cartridge. This item is considered a highly complex precision device. It is classified as a hazardous item. The device is subject to rigid safety control during the course of manufacture. Drawings and specification for the item will be available at the time of solicitation. Projected quantity is 1200 devices — required delivery being eight months after the date of award of the device. No security clearance is required to receive the APPI. There is no Government Furnished Property requirements or Technical Manual requirements connected with the procurement of this item. USAMUCOM.

APPI No. EA-35, Decontaminating Apparatus, Power Driven, Skid Mounted, Multipurpose, Non-integral, 500 Gallon, M12 (FSN 4230-741-9985). The M12 Decontaminating Apparatus consists of two skid mounted subassemblies: A self-contained pump assembly and a tank assembly. The self-contained pump assembly is powered by an aircooled engine which drives a centrifugal pump. The pump assembly may be used individually or interconnected with the tank assembly. The tank assembly has a hopper blender assembly used for blending STB decontaminating agent and water. Also a fluid agitator system is provided for keeping the STB in suspension while in use. The suction hose and blender hose is stowed on the tank assembly. The M12 Decontaminating Apparatus is designed to decontaminate critical terrain, equipment, or buildings and provide secondary services such as cleaning equipment, fire fighting, defoliating, etc., proposed procurement will be under 100 percent small business set aside. No security clearance required to obtain APPI. USAMUCOM.

APPI No. AP-7R-1, Projectile Body & Band Assembly, M375, 81mm — consists of three (3) components, 10.028" L x approx 3.184" max diameter. Body, 9.125" L x 3.184" D, nose and tapered, 2.595" OD, base end 1.835" OD, nose end, 2.595" ID, base end 1.62" ID with varying wall thickness, with .25" max borelet area, material, pearlitic malleable iron, Grade 50007, yield strength 50,000 PSI, 7 percent elongation, specification, MIL-STD-46971, Band, Obturating, 3.5" OD x 2.895" ID x .1875" W, material, pipe, plastic, specification, PA-PD-2521, Adapter, Base, 1.26" L x 1.8" max D, nose end threaded 1-1/8" 18 NEF, material, carbon steel, Grades 1018, 1020 and 1022, ASTM-A107, specification, bar quality or A108 applies, alternate pearlitic malleable iron, ASTM, Grade 50007, yield strength 50,000 PSI, 10 percent elongation, specification, MIL-I-1444, Adaptor is brazed 360 degrees or welded steel is used and tested to withstand an internal 5000 PSI hydrostatic test and 150 PSI internal pressure test. Hardness testing will be required. Body casting requires 100 percent ultrasonic and magnetic particle inspection. Finishing, clean zinc phosphate base, exterior — lusterless enamel lacquer, interior, acid resistant paint. Ballistic testing will be required on the initial production run and each subsequent production lot. Manufacturer firms bidding this item will require a competent staff of engineers, metallurgists, chem and tool design engineers to design, fabricate maintain precision tools required for mass production of this item. This item is considered very difficult produce to applicable specifications. No clear required to receive APPI. AP-USAMUCOM.

APPI No. AP-26R-1, Cartridge, Ignition, M3A1 Loaded is approximately .80" in diameter x 2.43" in length. Procured black powder loaded with primer in accordance with Purchase Description PA-PD-2544 Body Assembly, design similar to a shotgun shell material, Paper Wad, hardpressed, convolute commercial, Base Cup, material, steel commercial, .015" thick, finish cadmium coated, Class 3, material, plastic, clear or green, smooth surface, material, polyethylene, linear, non-oriented (Herculite) HI Fax, 1700 or 1800, approved source, Hercules Powder Company, Wilmington, Delaware, Crimp, .780" D x .015" thick, material, brass, commercial, Wad, approximately .76" in diameter, material, woodpaper, commercial, Primer

...for mechanical construction for shot shell...
...approximately .209" D...
...complete assembly is loaded...
...Specification MIL-P-223. Assembly...
...waterproofness...
...Manufacturing firms...
...technical staff. Gages...
...equipment will be...
...difficult...
...APPL AP-USA-...

APPL No. AP-40R-2, Case, Cartridge, 105mm, M 14B4, MPTS Assy. This cartridge case is 4.211" max OD x approximately 14.64" L /3/ components, Body, 14.142" L x 4.211" max OD at mouth, material, steel, 1007 to 1020, cold-rolled, finish No. 1, Specification QQ-S-698, .024 - .006" thick. Body to be wrapped from a trapezoidal blank so as to provide three thicknesses of metal at base and one thickness at the mouth, /with overlap at mouth/. Base, 4.688" OD x .55" thick with step diameter 4.344" x .372" W and centered primer case hole .546" ID with .63" counterbore, material, steel, special bar quality, ASTM Specification A107. Collar, 4.04" OD x .35" thick, formed ring, 2.56" ID with V-notch at bottom and angled lip, material, steel, special bar quality, ASTM Specification A107. The three /3/ items, phosphate coated and varnished prior to assembly. This item is extremely difficult to manufacture to applicable specifications. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. No clearance required to obtain APPL AP-USA-MUCOM.

APPL No. AP-40R-2, Rocket, Motor, 66mm, M54, is approximately 1 1/2" D x 10" L, made from aluminum alloy, extruded with six integral fin logs on the nozzle portion for attachment of six folding fins. The assembly consists of (20) component parts shown on (6) Ordnance drawings with (11) applicable specifications. The motor requires machining, drilling and reaming, milling and threading, heat-treatment and surface treatment. Manufacturing firms bidding on this item will require a technical staff of engineers, metallurgists and tool engineers to design and maintain precision tools for mass production quantities normally required by ordinance. This item is considered difficult to manufacture. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-51R-2, Rocket, Motor, 66mm, M54, is approximately 1 1/2" D x 10" L, made from aluminum alloy, extruded with six integral fin logs on the nozzle portion for attachment of six folding fins. The assembly consists of (20) component parts shown on (6) Ordnance drawings with (11) applicable specifications. The motor requires machining, drilling and reaming, milling and threading, heat-treatment and surface treatment. Manufacturing firms bidding on this item will require a technical staff of engineers, metallurgists and tool engineers to design and maintain precision tools for mass production quantities normally required by ordinance. This item is considered difficult to manufacture. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-52R-2, Fuze, Rocket, M412 is procured with explosive loaded detonator electric M48 and primer stab-T96, 1.86" L x 1.245" D at the base. Consists of 69 component parts shown on 80 ordnance drawings, including assembly drawings with /38/ applicable specifications. Five /5/ major components consist of base mounting approx 1.245" D x approx .636" L, various drilling, milling, tapping, forming of slots, holes and deburring is required on this part. Material: aluminum base alloy, die casting. Minor components in base mounting consist of weight, spring retaining, pin firing, spring firing pin, plug base, and screw base, springs shall not break when extended or distorted to the point of minimum permanent distortion. Support rear is approx .032" thick. Material: Cold-rolled carbon steel strip, No. 2 finish No. 4 or 5 temper, ASTM A108. Minor components assembled to support are bushing, pinion gear, stud pallet, and wheel star. Rotor is approx 1" L x approx .625" D, various drilling, milling, tapping, forming of slots and deburring is required on this part. Material: aluminum alloy, rod, temper gear rotor, rotor contact, screw contact, pin rotor, electric, M48 assembly, primer stab, T96 assembly. Support setback is 1.144" max x approx .893" x steel strip, No. 2 finish, No. 4 or 5 temper, ASTM A107. Minor components assembled to the rotor are insulator rotor, washer, screw set, rivets, detonator. Support setback is 1.144" max x approx .893" x steel strip, No. 2 finish, No. 4 or 5 temper, ASTM A107. Minor components assembled to support are spring ground, spring leaf No. 2 and 3, stud leaf No. 1, 2 and 3, washer stud, telltale inner contact, telltale insulator, telltale insulator bushing, telltale rivet. Cover is 1.245" min D x approx 1.233" L. Material: Cold-rolled carbon steel strip. Manufacturing firms bidding this item should be technically staffed with gists to mass produce quantities normally required by ordinance. This item is very difficult to manufacture and assemble to stay within applicable specifications. No clearance required to obtain APPL AP-USA-MUCOM.

APPL No. AP-53R-2, Warhead, 66mm, Rocket, HE, M18 MPTS Assembly is approximately 2.578" D x 2.568" D at large end and approx 1.129" D small end, material: steel, strip. Ogive is approx 5.79" L D at small end, material: aluminum alloy, sheet, at large end Conical shaped, .039" wall thickness, ASTM B152. Body head and ogive, soft annealed, crimped. Insulator is approx .33" x approx .986" Conduit is approximately 9.43" developed length x .098" OD and .065" ID, material: tubing, brass, alloy, .135" OD at large end x .085" ID small end, material: brass strip, Composition 1, spring temper, ID x .125" OD x .003" thick. Material, Gasket, Class B. Screw insulator No. 2 x 1/4" L. Manufacturing firms will require a competent technical staff of engineers, metallurgist and tool engineers. This item is considered difficult to produce to meet applicable specifications. No clearance required to obtain APPL AP-USA-MUCOM.

APPL No. AP-116, Casing, Burst, M158 - On piece design, approximately 8.23" L x 2.60" OD at flanged and necking down through 2/8 and 1/4 radii at 2.844" to a .57" OD for the remainder of the length of the casing, .073" wall thickness a small end with varying thickness at flanged end interior of flanged end threaded with a 2-12NA-11 thread to 1.30" minimum effective thread, three annular grooves of .06" radius and a surface finish between 16 and 32 FMS on the OD at the large end, material, aluminum alloy, 6061-T6, Specification ASTM-B211 and ASTM-B221. Hurster casing must withstand an internal air pressure of 200 PSI minimum for one minute without leakage. Manufacturing firms bidding on this item will request a technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for production. This item is considered difficult to produce to applicable specifications. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-117, Fin Assembly, M2, 1/60mm Mortar - 2.375" D x 2.535" L, and consists of two components, Cartridge Container, .94" D x 2.420" L, one end has .658" D bore extending to depth of 1.86" with .75 18NS-2B internal threads, .4" minimum depth, and a .830" D x .066" D counterbore. The other end has a shoulder .365" from end and is threaded externally .625-18UNF-2A x .265" L. Sixteen .1865" D holes extend radially through the sidewall into the .658" D cavity at various locations, material, steel bar, carbon, CF, Grade 1137, Specification ASTM A188, Fin .0625" thick x 1.90" L, single piece construction consisting of two blades and a hub area. Blades are .718" W, 52 degrees apart and spaced .20" W x .82" L. Hub area contains two .25" D holes prior to forming of the .47" hub radius. Four fins per assembly are located on 90 degree centers and copper brazed to cartridge container. Final protective finish, Specification MIL-STD-171, finish number 5.1.1 and 20.1, olive drab number X34087. The fin assembly is considered not difficult to produce. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-118, Plug, Lifting /M437A1 - 2.45" D x approx 3.27/32" L, eyebolt design, 2" NS threaded base, eye diameter 1.23", material, steel forging, Spec. MIL-S-13048, alternate steel casting, Class 65-35, Spec. QQ-S-681, alternate malleable iron casting, Spec. QQ-I-666, Surface finish zinc or iron phosphate base, Spec. finish No. 5.1 of MIL-STD-171 detail Spec. TT-C-490, salt spray test not mandatory, followed by paint system 20.1 or 20.2 of MIL-S-171, Color green No. 34087 or Fed. Std. 595. Threaded base to be coated with silicone compound, D-6, supplied by Dow Corning or GE-81508 supplied by General Electric or any acceptable compound evaluated as acceptable by the responsible Engineering Agency. Tension test of 8,000 pound required. This item is not considered difficult to manufacture to applicable specifications. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-119, Projectile, 106, HEF-T, M346-A1, MPTS - Approx. 15.1" L x 4.128" OD. The component parts are: Body approx. 15.1" L x 4.12" OD, one piece design, varying wall thickness, paraboloid shaped nose, with rotating band grooves, counterbore and threaded base end, material, carbon steel, nonresulphurized, spec ASTM 107. Rotating Band, approx. .035" thick overlay weld by inert gas shielded method, material, copper, RC11-1, Spec. QQ-R-571, Index Buttons, approx. .20" D x .09" thick, material, carbon steel, ASTM A108. Protector cap minor part, material, plastic, type 1 size 35 spec. MIL-C-52078. Manufacturers bidding this item should have a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AV-179, Circuit Breaker, Trip-free, Push-pull, 1/2 thru 10 amp, Appl. H-23 Helicorder, FSN 5925-985-8319. This is an item on QPL list No. 5809-22. Interested concerns should contact Bureau of Naval Weapons, Washington, D. C., to have their product tested for qualification. No clearance required to receive APPL USAVCOM.

APPL No. AV-180, Tire, Pneumatic, Aircraft, Nose wheel application, low profile, type 22, 7.25 x 11.50, tube in accordance with MIL-T-5041, Type 6, FSN 2620-269-7687. This is a QPL item. Interested concerns should contact Wright-Patterson Air Force Base, Ohio, to have their product tested for qualification. No clearance required to receive APPL USAVCOM.

APPL No. AV-181, Tire, Pneumatic, Aircraft, Size 6.50 x 8, 6-ply, (tubeless in accordance with MIL-T-5041D, type III, multiple aircraft, FSN 2620-772-6469. This is a QPL item. Interested concerns should have their product tested and qualified by contacting Wright-Patterson Air Force Base, Ohio. No clearance required to receive APPL USAVCOM.

APPL No. AV-182, Extinguisher, Fire, Aircraft Internal Engine, 17 to 31 volts, required to operate H. 5.125 in., max from bottom of nut, to center of valve outlet, 2 discharge valves located near bottom of sphere at 30 degrees from center, appl. P/O, engine fire extinguisher line instl. Grumman Engineering Corp. Part No. 134P10009-5, end item, model

APPL No. AP-116, Casing, Burst, M158 - On piece design, approximately 8.23" L x 2.60" OD at flanged and necking down through 2/8 and 1/4 radii at 2.844" to a .57" OD for the remainder of the length of the casing, .073" wall thickness a small end with varying thickness at flanged end interior of flanged end threaded with a 2-12NA-11 thread to 1.30" minimum effective thread, three annular grooves of .06" radius and a surface finish between 16 and 32 FMS on the OD at the large end, material, aluminum alloy, 6061-T6, Specification ASTM-B211 and ASTM-B221. Hurster casing must withstand an internal air pressure of 200 PSI minimum for one minute without leakage. Manufacturing firms bidding on this item will request a technical staff of engineers, metallurgists and tool design engineers to design, fabricate and maintain precision tools for production. This item is considered difficult to produce to applicable specifications. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-117, Fin Assembly, M2, 1/60mm Mortar - 2.375" D x 2.535" L, and consists of two components, Cartridge Container, .94" D x 2.420" L, one end has .658" D bore extending to depth of 1.86" with .75 18NS-2B internal threads, .4" minimum depth, and a .830" D x .066" D counterbore. The other end has a shoulder .365" from end and is threaded externally .625-18UNF-2A x .265" L. Sixteen .1865" D holes extend radially through the sidewall into the .658" D cavity at various locations, material, steel bar, carbon, CF, Grade 1137, Specification ASTM A188, Fin .0625" thick x 1.90" L, single piece construction consisting of two blades and a hub area. Blades are .718" W, 52 degrees apart and spaced .20" W x .82" L. Hub area contains two .25" D holes prior to forming of the .47" hub radius. Four fins per assembly are located on 90 degree centers and copper brazed to cartridge container. Final protective finish, Specification MIL-STD-171, finish number 5.1.1 and 20.1, olive drab number X34087. The fin assembly is considered not difficult to produce. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-118, Plug, Lifting /M437A1 - 2.45" D x approx 3.27/32" L, eyebolt design, 2" NS threaded base, eye diameter 1.23", material, steel forging, Spec. MIL-S-13048, alternate steel casting, Class 65-35, Spec. QQ-S-681, alternate malleable iron casting, Spec. QQ-I-666, Surface finish zinc or iron phosphate base, Spec. finish No. 5.1 of MIL-STD-171 detail Spec. TT-C-490, salt spray test not mandatory, followed by paint system 20.1 or 20.2 of MIL-S-171, Color green No. 34087 or Fed. Std. 595. Threaded base to be coated with silicone compound, D-6, supplied by Dow Corning or GE-81508 supplied by General Electric or any acceptable compound evaluated as acceptable by the responsible Engineering Agency. Tension test of 8,000 pound required. This item is not considered difficult to manufacture to applicable specifications. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AP-119, Projectile, 106, HEF-T, M346-A1, MPTS - Approx. 15.1" L x 4.128" OD. The component parts are: Body approx. 15.1" L x 4.12" OD, one piece design, varying wall thickness, paraboloid shaped nose, with rotating band grooves, counterbore and threaded base end, material, carbon steel, nonresulphurized, spec ASTM 107. Rotating Band, approx. .035" thick overlay weld by inert gas shielded method, material, copper, RC11-1, Spec. QQ-R-571, Index Buttons, approx. .20" D x .09" thick, material, carbon steel, ASTM A108. Protector cap minor part, material, plastic, type 1 size 35 spec. MIL-C-52078. Manufacturers bidding this item should have a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers. No clearance required to receive APPL AP-USA-MUCOM.

APPL No. AV-179, Circuit Breaker, Trip-free, Push-pull, 1/2 thru 10 amp, Appl. H-23 Helicorder, FSN 5925-985-8319. This is an item on QPL list No. 5809-22. Interested concerns should contact Bureau of Naval Weapons, Washington, D. C., to have their product tested for qualification. No clearance required to receive APPL USAVCOM.

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APPL No. AV-182, Extinguisher, Fire, Aircraft Internal Engine, 17 to 31 volts, required to operate H. 5.125 in., max from bottom of nut, to center of valve outlet, 2 discharge valves located near bottom of sphere at 30 degrees from center, appl. P/O, engine fire extinguisher line instl. Grumman Engineering Corp. Part No. 134P10009-5, end item, model

No. OV-1. In accordance with MIL-C-22284, Type CF2D. FSN 1680-980-9550. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-183. Bag, Cargo. Aerial delivery, collapsible, olive drab, material data: cotton duck, container, 2200 lb. capacity, O/A dim., 232 in. long opened, 211 in. wide opened. In accordance with MIL-C-7554, Revision C, type A22. This solicitation will be 50% set-aside for small business concerns. FSN 1670-242-9169. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-184. Parachute, Cargo. Extraction, canopy, 22 ft. dia., olive drab, nylon, flat circular, size packed 24 in. long, 15 in. wide, 8 in. height. Major components incl. canopy, bag, extraction line, adapter, link connector. In accordance with MIL-P-7620B and 9401A and U. S. Air Force drawing 59B6209. Revision F. FSN 1670-687-5458. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-185. Fuel and Oil Kit, Filter Element, Appl., UH-1, Aft. In accordance with AVCOM Procurement package No. 204-2490-1. Revision F dated 16 July 1964. FSN 2945-019-0280. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-186. Container, Shipping and Storage, Rotary Blades, Appl., OH-23 and OH-13 Aircraft Except OH-13S model. In accordance with AVCOM procurement package 8115-CON-002 with deviations. FSN 8115-999-6438. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-187. Maintenance Kit, Hardware, Aircraft, Appl., CH-47 Helicopter (AN and NAS). In accordance with AVCOM procurement package No. 1560-CH-47-370-1, FSN 1560-227-6443. No clearance required to receive APPI. USAAVCOM.

APPI No. AV-188. Scale, Aircraft, Weighing, 150,000 lbs., max., cap., portable, incl., carrying case, electrically operated A. C., 110V, 60 cycle, single phase, DC, 22V to 28V, indicator, dial, 5100 lb. dial graduations, 10 lb. increment, in accordance with MIL-W-7327B, FSN 6670-999-1195. No clearance required to receive APPI. USAAVCOM.

APPI No. WE-74R1. Band Lower, P/N 5546000. This is a small arms part for the M1 Rifle. This part can be made from carbon steel parts, brazed and welded at assembly or optionally from precision steel castings. FSN 1005-554-6000. No Security Clearance is required. USAWECOM.

APPI No. WE-182R1. Barrel for Pistol Cal. .45 M1911A. P/N 7791193. This part is machined from alloy steel bar rifling. Chromium plating, proof firing and magnetic particle inspection required. FSN 1005-722-3849. No Security Clearance is required. USAWECOM.

APPI No. WE-187R1. Slide, Service for Pistol Cal. .45. M1911A1. P/N 7790353. This is an assembly of three (3) parts. The principal part, the slide, is machined from alloy steel bar. FSN 1005-876-4033. No Security Clearance is required. USAWECOM.

APPI No. WE-228R1. Brush, Chamber for Rifle 7.62mm M14. P/N 7790463. The brush has a total length of approximately 3.4 inches. It consists of an adaptor and brush assembly, a nail and a driver. Component has capped end on front of wire protrusion. FSN 1005-690-8441. No security Clearance is required. USAWECOM.

APPI No. WE-263. Envelope, Fabric. P/N 7228907. It consists of body, binding, and fasteners. Body made from fabric, waterproof, O. D. Spec. 6-365. Binding to be webbing, cotton, O.D. Type I JAN-W-530. FSN 1005-722-8907. No Security Clearance required. USAWECOM.

APPI No. WE-264. Pin, P/N 5572448. This is a part of a Howitzer, Lt. Towed 105mm, M101A. It is made of steel, Class B2, Spec. MIL-S-11415. Heat treatment required before grinding and a protective finish must be applied. FSN 1015-557-2448. No Security Clearance is required. USAWECOM.

APPI No. WE-265. Worm, Shaft P/N 5568633. This is a part for a carriage, howitzer, 105mm, M101A1. It is of bronze, manganese rod Spec. QQ-B-728 with Brinell hardness of 225 Min. FSN 1015-556-8633. No Security Clearance is required. USAWECOM.

APPI No. WE-266. Shaft P/N 6159177 This is a part for the 105mm Howitzer. It is made of steel of Spec. QQ-S-624 or Spec. QQ-S-633. Protective finish is required. Certain physical properties also exist. FSN 1015-615-9177. No Security Clearance is required. USAWECOM.

APPI No. WE-267. Holster, Shoulder P/N 7142700. Holster is for Cal. .30 Colt and SW2 weapons. It has numerous black leather components. FSN 1095-714-2700. No Security Clearance is required. USAWECOM.

APPI No. ME-2R2. Generator Set, Gasoline Engine-Driven, 1.5 KW, 28 volts, direct current, air cooled, portable, tubular frame and shock mounted. Set shall consist of a Government furnished military standard engine, model 2A016, FSN 2805-714-8553 and a 1.5 KW, 28 volt, dc generator. Overall dimensions shall be 27 1/2 inches long, 20 1/2 inches wide and 18 1/2 inches high. Net dry weight 115 lbs. Operating (rated) speed is 3,600 rpm. Technical publications, repair parts and maintenance tools

shall be furnished as specified. Set is intended to supply power for general purpose use. In accordance with MIL-G-5228A & Dwg. No. DL 13213E2700. FSN 6115-017-8236. No security clearance required to obtain APPI. USA MEC.

APPI No. ME-3R1. Generator Set, Gasoline Engine-Driven, 10 KW, 60 cycle, alternating current, air cooled, portable, tubular frame and skid mounted. Set shall consist of Government furnished military design engine, model 4A084, FSN 2805-776-0485 and a 10 KW, pf lagging, 60 cps generator. Set shall be connectable for the following voltage rating: 3-phase, 4-wire, 120 volts line-to-neutral and 208 volts line-to-line (120/208 volts); 3-phase, 3-wire, 120 volts line-to-line; Single-phase, 2-wire, 120 volts; Single-phase, 3-wire, 120/240 volts. Over-all dimensions shall be 57 inches long, 29 inches wide and 30 inches high. Operating (rated) speed is 3,600 rpm. Technical publications, repair parts and maintenance tools shall be furnished as specified. Extinguisher, fire, vaporizing liquid, bromotrifluoromethane, 2 3/4 lbs., with bracket shall be Government furnished and mounted by the supplier. Set is intended to supply power for general purpose use. In accordance with MIL-G-52280B with Amendment 1 and Dwg. No. DL 13211 E4860. FSN 6115-889-1447. No security clearance required to obtain APPI. USA MEC.

APPI No. ME-9R1. Generator Set, Diesel Engine-Driven, 45 KW, alternating current, liquid cooled, portable, skid mounted, multipurpose. Set shall consist of a diesel engine directly connected by a flexible coupling to a 45 KW, 0.8 pf lagging, 400 cps generator; an excitation system, voltage regulator, fuel tank, 24 volt engine starting motor, controls, batteries, battery charging generator and controls, governor, winterization equipment, weather resistant housing and rigid skid base. Maximum dimensions of set shall be 87 inches long, 36 inches wide and 59 inches high. Set shall be reconnectable for 3 phase, 4 wire, 120 volts line-to-neutral and 208 volts line-to-line (120/208 volts) wye and 3 phase, 4 wire, 240 volts line-to-neutral and 41* volts line-to-line (240/416 volts) wye. Operating (rated) speeds of set shall be either 1,714 or 1,846 rpm. Maximum dry weight of set shall be not more than 4,450 lbs. An industrial type diesel engine conforming to MIL-E-11276 shall be provided with a fuel system including piping, valves, filters, fuel tank, day tank, two electric fuel transfer pumps, preheat pump, and other required equipment. Engine shall include both manual turning for inspection and maintenance and a 24 volt electric cranking system for starting. Set shall be equipped with an electric load sensing governing system with the necessary equipment for speed error sensing, amplification, drive and with an adjustable frequency regulation (droop) control on the control panel. The generator shall be a single bearing, rotating field, self ventilating synchronous type. A voltage reconnection system shall be provided for reconnecting the phase windings of the generator to give all specified terminal voltages. Excitation system shall consist of an exciter and voltage regulator of the static type. Control panel shall consist of a generator control cabinet and an engine and winterization control panel. Housing shall be constructed of steel or aluminum alloy, fully inclose the sides, top and ends of set, exclude wind driven rain, snow and sand from the interior, be of bolted construction, have drip channels, be removable in two parts, be reinforced, provide a fully protected compartment for storage of manuals, etc. Skid base shall be constructed of steel or aluminum alloy and shall have towing holes and two retractable towing eyes. Winterization system when required, shall consist of fuel supply system, diesel fuel fired coolant heater, coolant circulating pump, distribution system and all necessary controls. Set shall withstand, without damage, rough handling normally encountered during rail, truck or trailer transportation. Each set shall be provided with a lifting attachment located at the top of the set. Sets are intended to supply power for general and special purpose use. In accordance with MIL-G-14609D, Type II, FSN 6115-538-8776. No security clearance required to obtain APPI. USA MEC.

APPI No. ME-15R2. Scraper, Earth Moving, Towed: Air transportable, pneumatic-tired, hydraulically controlled from the towing tractor with positive control of pickup, hauling and discharge of material by the towing operator. When specified, shall be furnished with a removable dolly so that the scraper may be used as a 4-wheel or as a 2-wheel scraper. Capacity of not less than 18 cubic yards. The components of the scraper shall withstand any ambient temperature from minus 25 degrees to plus 125 degrees F. The scraper shall withstand operation over unimproved terrain, convoy operations, and earthmoving operations under varying weather conditions and on 20 percent side slopes without breakage or permanent deformation. Shall load undisturbed soil, haul, dump or spread the soil, operate at a max. speed of 25 mph and an average speed max. of 20 mph when hauling heaped loads. Load, without the use of a pusher tractor, undisturbed soil to a struck capacity 18 cu. yds. in 75 to 90 seconds. Cut at all depths from ground level to 15 inches below ground level. The scraper bowl shall be of the front loading, open-bowl type complete with apron, blade base, ejector, cutting edges, and side bits. A push

plate shall be provided at the rear of the scraper, also one or more rear towing hooks able to withstand a pull of 100,000 pounds min. throat opening 1 1/2 inches. Scraper shall be provided with tie-down attachments. Scraper is intended for general earthmoving work in the construction of roads and airfields. In accordance with MIL-S-52271. No security clearance required to obtain APPI. USA MEC.

APPI No. FE-17R2. Generator Set, Gasoline Engine-Driven, 3 KW, 60 cycle, alternating current, 0.8 pf lagging, air cooled, portable, tubular frame, skid-shock mounted. Set shall consist of a Government furnished military design engine, model 4A032, FSN 2805-776-0843 connected to a 3 KW, 60 cycle, ac, 0.8 pf generator. Set shall be connectable for 3 phase, 4 wire, 120 volts line-to-neutral and 208 volt line-to-line (120/208 volts); 3 phase, 3 wire, 120 volts line-to-line; single phase, 2 wire, 120 volts; single phase, 2 wire, 240 volts. Overall dimensions shall be 35 inches long, 24 inches wide, 25 inches high. Net dry weight 285 lbs. 3,600 rpm operating (rated) speed. Set shall not be damaged by storage in temperatures from plus 155 degrees F to minus 65 degrees F at any relative humidity. The set is intended to supply power for general purpose use. In accordance with MIL-G-52367A, Type I and Dwg. No. DL13208E5800. FSN 6115-017-8237. No security clearance required to obtain APPI. USA MEC.

APPI No. AT-79R2. Engine, Multi-Fuel W/Container. The ORD 5702723 (ORD 5702863) engine assembly was originally released in August 1966. Provision of this revision is adjustment of quantities. FSN 2815-911-3645. No clearance required to obtain APPI. USATAC.

APPI No. AT-135. Cover Assembly. The ORD 8382966 cover assembly is used for the 3/4 Ton, 2 Wheel Cargo Trailer, to protect cargo from inclement weather and unfavorable conditions during vehicle operation. This cover assembly consists of following components: (a) #8 processed duck (b) grommets (c) tie-down ropes (d) strap assemblies (e) rivets. SNL-APP G748. FSN 2540-313-9794. No clearance required to obtain APPI. USATAC.

APPI No. AT-136. Armature Assembly, Engine Generator. The ORD 7413317 Armature Assembly is the rotating member of the generator assembly and a major component of the vehicle electrical generating system. This armature assembly consists of following components: (a) laminated iron core (b) in-copper coil windings (c) copper commutator (d) insulation (e) steel shaft (f) mica separators. SNL APP—Multiple. FSN 2920-741-3317. No clearance required to obtain APPI. USATAC.

APPI No. AT-137. Wheel Assembly, Pneumatic Tire. The ORD 7355430 wheel assembly is a major component of the traction system for military trailers and accommodates an 11.00 x 15 tire. This assembly consists of following components: (a) steel wheel (b) steel wheel ring. SNL APP—Multiple. FSN 2530-693-0969. No clearance required to obtain APPI. USATAC.

APPI No. AT-138. Regulator, Engine Generator. The ORD 10947439 regulator assembly is a major component of the electrical system for military vehicles. This regulator assembly is of the carbon pile type and rated at 100 AMP—28 Volt for use with selenium or silicone rectifiers. SNL APP—Multiple. FSN 2920-900-7993. No clearance required to obtain APPI. USATAC.

APPI No. AT-139. Crankshaft, W/Oil Plugs and Retainer. The 23040-GAA6300A1 and GAA6300A2 Crankshaft Assembly is a major component of an 8 cylinder, V8 type, 500 HP gasoline engine used in military tracked vehicles of the M4 and M36 series. SNL APP—Multiple. FSN 2805-350-4547. No clearance required to obtain APPI. USATAC.

APPI No. AT-140. Carburetor Assembly. The ORD 1092911 carburetor assembly is a major component of the fuel system for a 4 cylinder, 71 HP OHV gasoline engine used in a 1/4 Ton 4 x 4 military wheeled vehicle. This assembly consists of following components: (a) air horn (b) throttle body (c) main body (d) float (e) cover (f) jets (g) gaskets (h) venturi (i) throttle plates (j) shaft (k) miscellaneous hardware. SNL APP G838, G293. FSN 2910-788-8457. No clearance required to obtain APPI. USATAC.

APPI No. AT-76R4. Shoe Assembly, Track, T130. This ORD 10866003 shoe assembly was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-930-2011. No clearance required to obtain APPI. USATAC.

APPI No. AT-76R5. Shoe Track, T136. This ORD 10954051 track shoe assembly was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-799-0020. No clearance required to obtain APPI. USATAC.

APPI No. AT-76R6. Track Shoe Assembly, T91E3. This ORD 7952165 track shoe assembly was originally released in July 1966. Provision of this revision is adjustment of quantities. FSN 2530-795-2165. No clearance required to obtain APPI. USATAC.

REF ID: A7489. E. A. Wheel, M41-42. This information was originally released in 1974. In light of the government's change in policy, this information is being released. No clearance required. REF ID: A7489.

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated May 1, 1967 page 2, No. PSA 3861 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. AP-382 Cord, Polyester, Reinforced
APPI No. AP-383 Cord, diameters 0.175"
to 0.250" (Class E), textile cover,
designed to meet various requirements
for use with Mil-C-171248 as max
bursting strength for length, minimum breaking
strength, elongation, propagation of detona-
tion, shock, impact sensitivity, waterproofness,
storage temp. and upward storage temperature
limits. For cord lengths are furnished on
standard sizes and for 60" and 100" cord lengths
are furnished on special orders. Firms bidding
on this project should have a technical staff familiar
with the product materials. No security clear-
ance is required to obtain this APPI. AP-USAMIL-
383

APPROX. AP-128-2. Case, Cartridge, MILR, 40mm
max. length 114.14 OD with varying wall thickness
and pressure 548. D x .557. H in base section,
bearing the protrusion into the primer pocket which
is machined in this base and also a rim 1.719 D
bearing some loose Chemical Corp. For. 3-1. Spec
MIL-A-1444 states forming final tensile properties
as follows in accordance with Temper T6 of Table II
blanked and case 17.4 D x .625 thick. Disc is par-
tially ground, pebbled, drilled, followed by a series
finishing operations. Heat treated to T4 and T6, surface
batteries and barrels upper .12 H x .01 D max
and varying diameters and yield. Protective finish,
darker green MIL-STD-171, color shall be no lighter
than green MIL-171 or darker than green 134079.

APPI No. AP-36R-2. Projectile. HEAT, 106mm, M344A1 with M8 Fin. MPTS—This projectile Assembly. 16.43" L x 4.128" in D, consists of 10 component x 4.128" OD. 3.555" ID, counterbored and internally threaded on both ends, 2 bourrelets and an annular groove on the OD, material, steel, tubing, seamless, Specification QQ-T-830 or steel, forging, Special Bar Quality, Spec ASTM-A107; Ogive 8.116" L, hollow truncated cone with a 4.11" OD tapering to 3.713" on the opposite end, .144" wall thickness, external threads on both ends, material, steel, forging, Special Bar Quality, Specification ASTM-A107 or steel, cold extrusion, Specification MIL-S-11310; Cone, 3.819" L, hollow truncated cone, closed on the small end, 3.564" OD tapering to approx .616" on the opposite end, .10" wall thickness, material, copper, strip, cold-rolled, deep drawing annealed.

Spec QQ-C-576; Chamber, 3.10" L x 3.938" OD, external thread on one end, internal thread on other to 10.15 Spec QQ-T-830, other parts are pins /6 each, 1-7/8 thread, a counterbore and a 1.264" through hole with 4 equally spaced longitudinal slots on the circumferences, material, Aluminum Alloy, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Plug, .39 L x 1.873" OD, 1-7/8 external thread, 2 blind holes 180 degrees apart on the base, one blind hole on the longitudinal axis at the opposite end, material Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; other parts consist of polyemide insulator and conduit, brass eyelet, stainless steel wire with polyamide insulation, wire terminal and a carbon steel ogive cap. Fin Assembly, 11.22" L x 3.938" in D, consists of 16 component parts, the major components are Fin /6 each, 8.93" L, varying in depth from 1.544" at the Base to .929" at outer extremity, .040" thick at top to .260" at the bottom, .25" hole through base with a full depth involute spur gear tooth space on outside radius at bottom of base, material, Aluminum, Forging, Spec QQ-A-367; Housing, 2.91" L x 3.938" OD, 1.687" ID, 6 pair of lugs on one end with .25" hole through each, other end counterbored with a .030" x .065" shear ring remaining on the circumference, 3.5" thread on the OD, material, Aluminum, Forging, Specification QQ-A-367 or Aluminum Alloy, Spec QQ-A-200/3A or QQ-A-225/6A; Piston, 2.93" L x 1.883" in D, 1.338" internal D on large and necked down in 2 steps on a .196 internal D on the small end, 1.625" thread on large OD, circumferential rack gear tooth on opposite end, material, steel, carbon, bar, cold finished, Specification ASTM-A108; Stop, Piston, .51" L x 1.824" OD and 1.625" thread on OD, undercut and taper on OD, material, steel, A108 or steel, tube, seamless CDST, MT1020, 1022 threaded cavity 1.80" D x 1.94 thread, material, aluminum alloy, 2024-T4 or 2024-T3510, Spec QQ-A-267, aluminum alloy, 6066-T6 or 6066-T351, Spec MIL-A- and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of mating parts, fin opening and penetration. Manufacturing firms producing this item will require a competent staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-44R-2, Projectile, 105mm, HEP-T, M193A-2. MPTS-15.84" L x 4.126" OD, 3/ component consisting of Body Assembly, 15.34" L x 4.123" OD. One piece design, varying wall thickness from approx .30" to .135", parabola shaped nose, 7/2 end, material, steel, carbon, and threaded base. Mechanical properties, yield strength 70,000 PSI, elongation 10 percent. Rotating Band Blank, 1/2 4.14" ID metal. Spec MIL-B-20292. Body and two rotating band assembly must withstand an internal air pressure test of 100 PSI minimum for 15 seconds. Plug Bags, 3.00" L x 4.06" OD of shoulder, 7/2 two holes 180 degrees apart 5/16" D of shoulder, 7/2 two holes closing, .010" thick x .66" D x 5/16" D, threaded .25493. Manufacturing firms bidding this item will require a highly competent technical staff of engineers, metallurgists, chemists and tool design engineers to design, fabricate and maintain precision tools required to mass produce. This projectile is

APPI No. AP-48R-1. Case, Cartridge, 40mm M169--2.09" L x 1.624" to 1.714" D with varnol wall thickness from .032" to .724", with a web i approx center of case which is cup shape, appro .136" thick with 6 each .108" D tapered hole equally spaced around the web inside of case. Th material is aluminum alloy 6066 chemical comp. par. 3.1, Spec MIL-A-25493. This item has meta stamping in base, uses Gottle capital letters to a minimum depth of .010" raised material which shal not exceed .002. The letter to identify item by no menclature, manufacturer's code letter, lot number and year of manufacture. Protective Finish No. 4: followed by Finish No. 7.2.2 of MIL-STD-171 Dech-romate Seal, minimum 5 percent solution. Color must not be lighter than Green No. 34151 or darker than Green No. 34079 of Federal STD No. 595, Plug Base. 473" thick x 1.053" D with a primer pocket .127" D x .209" with flash hole .108" through plug. Material, aluminum alloy, 7075-T6, Spec QQ-A-277, protective finish same as case cartridge. Disc Closing, .101" thick x .66" D of material brass alloy No. 1, Spec ASTM-B36-61. Finished cartridge case must withstand a hardness test near the mouth and base of the case, method of test, 243 of Federal Standard No. 151, and corrosion resistance shall be tested in accordance with Federal Standard No. 151, method 811-1. Contractor must provide and maintain an effective Quality Assurance System. This item is considered very difficult to manufacture to meet applicable specifications by mas production methods. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-61R-2. Projectile, 40mm, Practice, M407A1 consists of three (3) components, Ogive Ball and Skirt, Ogive, formed parabola shape, 1.51" ID at base x 1.25" H x .028" min thickness, material aluminum alloy, sheet and plate 1100-O. Spec ASTM-B209, .032" plus or minus .002" (thick. Ball, spherical shape, 1.5" D, .568" ID x 1.362" D cavity with 5/8 - 32 UN-2B threads. Material metal filled phenolic compound. Skirt, 1.62" OD x 1.37" ID x 1.5" L, machined with various diameters and grooves. Material, aluminum tubing, alloy 6061-T4, or 2024-T0, physical properties to be in accordance with Table II. Spec ASTM-B210. Ball and skirt together with adhesive, and skirt is swaged overball and baked at 200 degrees F plus. After assembly of ball to skirt, sphere shall withstand a torque of 100"/pounds applied through a bar inserted in the cavity of the ball, and threads to withstand 40"/pounds minimum torque. Manufacturing firms bidding on this item will require a competent technical staff consisting of engineers, metallurgists and tool design engineers to design and maintain precision tools for the production of precision parts. This projectile is considered somewhat difficult to produce to applicable drawings and specifications. Confidential clearance is required to receive this APPI. AP-USAMICOM.

APPI No. AP-70R-1. Projectile, 40mm, HIF, M384, MPTS—consists of body and blank band. Body is approx 1.855" L x 1.558" max D. Body is bent with knurled groove, .366" W around body approx .674" from mouth of body. Body tail base and side walls are approx .107" thick. Body has inside threads 1-15/32-24NS-2B at top. Internal base surface deeply embossed with a radial cart wheel configuration. Body is to be impact extrusion material 1030 steel ASTM 107-61T special quality. Alternate method of manufacture to be drawn from plate material, 1030 steel plate, spec QQ-Q-700B. Blank band is tubing copper seamless, spec W-W-T-696. .365" L x ID 1.56" and .072" wall thickness. Band Blank is to be swaged to band seat of body and two grooves machined in body rearward of the band. Body assembly to be phosphate coated and painted olive drab. The item is considered to be difficult to manufacture to drawing and specification requirements. Confidential clearance is required to receive this APPI. AP-USAMUCOM.

APPI No. AP-102R-1. Projectile, 105mm, IIB, MI, MPTS—Consisting of three components. Body Shell 15.7" L. O. D. at base 3.52", below rotating band groove 4.128" OD, 4.10" OD of body, 4.128" at buroret and tapered to 2.38" OD at the nose, 3.05" up from base of projectile a groove is machine and knurled for rotating band. Nose of projectile has interior threads 1.39" min full thread. Exterior of nose end has five staking notches equally spaced, .06" depth x .08" D. Material: forging steel, specification MIL-F-13854, alternative when shell is manufactured by cold extrusion process use specification MIL-S-11310, steel, bars, for cold shaping. When produced by cold extrusion, use specification, RP-PD-96. When produced by hot cup, cold draw process, WD SS-2a, specification MIL-S-10520, shall not be used. Yield strength .1%, 65,00 PSI, elongation 15%. Specification MIL-F-13854 not applicable when produced by cold shaping and only to the forged cup when produced by hot cup cold draw process. Rotating band 4.16" ID, .197" thick x .865" W, assembled to projectile cold. Material: Gliding metal specification MIL-B-20292 or Sintered Iron, Class 4. Specification MIL-R-11073. Cover base 3.01"

D x .0310" thick material: Steel, strip, FS1009 temper No. 4, finish No. 1. A satisfactory passing of a ballistic test is a requirement for the acceptance of each lot of projectiles from the metal parts manufacturer. No security clearance required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-120. Projectile, 40mm, M406—Consists of the following components parts: Ogive, parabola shape, formed from aluminum alloy sheet and plate, 1100-0, Spec. ASTM-B209, .032" plus or minus .002" thick. Protective finish No. 7-1 or 7.2 of MIL-STD-717. Color, yellow. No. 33538 per FED-STD-.002" thick. Protective finish No. 7-1 or 7.2 of MIL-diameter with parallel flats on side 1.259" apart, form from notched wires, flats bored and counter-bored of material: wire, steel, FS 1010, Composition A, temper annealed, finish No. 1 or No. 2 bright, .061 x .150" rectangular, Spec. QQ-W-461, Plug, .793" D with spherical top .062 to .079" thick. Material: steel strip cold rolled, temper No. 5, Spec ASTM-A109, Insert, .769" OD with .86" OD flange approx. centered on .238" width and .59" ID with thread .625-32NS-2B. Material steel bar, as cold finished 1117 or 1010 to 1020 incl. Spec. ASTM-A108. Ball and skirt assembly consist of ball assembly described above with Skirt, 1.50" L x 1.623" OD with machined flanges at center and one end 1.375" ID one end spherical radius ID opposite end. Material, aluminum tubing alloy 6061-T4 or 2024 to physical properties to be accordance with Table II, Spec. ASTM-B210, protective finish No. 7.3 of MIL-STD-171, and color in accordance with FED-STD-595. Skirt to be assembled to ball assembly by swaging the skirt over ball with adhesive. Manufacturing firms bidding this item will require a competent technical staff or Engineers Metallurgists and Tool Design Engineers to design and maintain precision tool required for mass production of component parts. This projectile is considered very difficult to produce to applicable drawings and specifications. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-121. Fuze, PD, M551, is procured with Detonator and lead charge loaded into the Fuze. Fuze is approx 1.325" D x 1.818" L, consisting of approx 40 component parts and numerous applicable specifications. The assembly consists of plates, shafts, pins, pinions, gear, springs, retainers, rotors, spacers, adapters, and seals, fabricated by stamping, punching, drilling, reaming, coining, forming, trimming, blanking, tapping, knurling, staking, marking, heat-treating, tin plating, zinc plating, oxide black finish, and molykoting. The materials are aluminum alloy sheet, strip, and rod, brass sheet, strip, and rod, steel music wire, and aluminum tape. The assembly is required to meet the following tests: Jolt and Jumble. Transportation and Vibration, Water-proofing, Function and Firing, arming and non-arming tests. Firms manufacturing this item will require a highly competent technical staff of engineers, metallurgists, tool engineers to design and maintain precision tools to produce and test precision parts. This item is considered very difficult to produce in quantities normally required by Ordnance. In addition, a considerable amount of knowhow of various metal-working processes is required to produce in accordance with Ordnance Specifications. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. AP-122. Fuze, PD, M533—This fuze is 1.602" in D and 1.556" L. There are approx 40 parts to a fuze consisting of plates, shafts, pins, pinions, springs, gears, rotor, spacers, adapters, and seals. These parts are made by stamping, punching, drilling, reaming, coining, tapping, and knurling. They are made of steel, brass, and aluminum. The fuze must be completely assembled to rigid ordnance specifications and assembly is subject to following tests: jolt and jumble, transportation and vibration, water-proofing, arming, and non-arming. The fuze is procured with detonator and lead charge installed. This item is considered very difficult to produce to ordnance requirements. Firms manufacturing this fuze will require a highly competent technical staff of engineers to design and maintain precision tools to produce in quantities normally procured. No security clearance is required to obtain this APPI. AP-USAMUCOM.

APPI No. WE-268. Stock Assembly, P/N 7190952. Component part of the Rocket Launcher 3.5 in. M20A1B1. This part is made of aluminum alloy 2024, Temper O, Spec. QQ-A-250/4. It must be Temper T4 after forming and a finish 7.3 of MIL-STD-171. It is not considered difficult to manufacture. FSN 1015-719-0952. No Security Clearance is required. USAWECOM.

APPI No. WE-269. Lock, Gas Cylinder, P/N 7265871. This is a repair part for the Cal. .30 M1 Rifle. It is made of steel with heat treatment and final protective finish requirements. FSN 1005-726-5871. No Security Clearance is required. USAWECOM.

APPI No. WE-270. Screw, Gas Cylinder, P/N 6535449. This is a small arms part for the Cal. .30 M1 Rifle. It is made from corrosion resisting steel, Fed. Spec. QQ-S-763, Class 6 as rolled except as noted on drawing. Heat treatment required and final protective finish to Spec MIL-F-13924 Class 3. FSN 1005-653-5449. No Security Clearance is required USAWECOM.

APPI No. WE-271. Mechanism, Assemoy, Firing, P/N 7140325. This is a component of the 3.5 Rocket Launcher. It is a plastic-molded item with a firing mechanism assembly and grip assembly. It is considered moderately difficult to manufacture. FSN 1055-714-0325. No Security Clearance is required. USAWECOM.

APPI No. WE-272. Amplifier, P/N 10515532. Part of Radio Set AN/GRC19. This electronic control amplifier is in accordance with Signal Corps drawing SMD-143396 less 4 tubes, 4 shields and 1 chopper. It is considered moderately difficult to manufacture. FSN 5990-5684-786. No Security Clearance is required. USAWECOM.

APPI No. MI-61R2. Contract Definition Phase for the Simulator Evaluator AN/MPQ-42. This is that phase during which preliminary design and engineering will be verified and/or accomplished, and firm contract and management planning will be performed on the Simulator Evaluator AN/MPQ-42. The AN/MPQ-42 is a complete Air Defense Complex exerciser and evaluator that will be moved from unit to unit and defense where it will be connected to tactical equipment for conducting evaluation and training to maintain the highest state of combat readiness. No Federal Stock Number assigned. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-73R1. Adapter and Stowage Kit, M113 Vehicle. TOW Missile System. The M113 vehicle adapter is a stowage firing kit for the TOW Missile that can be installed in the field. It consists of a mechanical deployment mechanism for the TOW launcher and additional brackets and racks for storing the missiles and launcher equipment. The principal components of the deployment mechanism are a pedestal support rail assembly, pedestal support, and telescoping pedestal which facilitate deployment of the launcher to a firing position above the deck of the vehicle. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-59. Cancellation of APPI. Contained for Redeve Launcher, published in the 2 August 1966 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. ME-10. Cancellation of APPI. Published previously as APPI No. ME-10, GENERATOR SET, GED, 7.5 KW, 28 V, dc, wheel mounted in the 1 June 1965 issue of the Commerce Business Daily is hereby cancelled. APPI No. ME-10 is replaced by ME-115. USAHEC.

APPI No. ME-35R1. Bridge, Armored Vehicle Launched, scissoring type, class 60, aluminum, 60 foot span. Bridge shall consist of a hydraulic system, scissoring cables, and launching sockets. All elements of hydraulic system shall withstand working pressure of 3,500 psi and a proof pressure of 7,000 psi without deformation, leakage or damage. Hydraulic hose shall be synthetic rubber composition reinforced with multiple wire braid or wrap and designed for storage in ambient temperatures of minus 65 degrees F to plus 155 degrees F and for use in ambient temperatures of minus 25 degrees F to plus 200 degrees F. Outside cover of hose shall be neoprene synthetic rubber composition. Hydraulic hose assembly shall withstand pressure surges of 5,000 psi at a rate of 35 surges per minute for not less than 35,000 impulse cycles. Scissoring cables shall be painted with continuous longitudinal, color strip at line rope is measured to length and marked for fittings. Sockeling of wire rope is required. Steel used in bridge shall be free of laminations, kinks and sharp bends. Corners shall be square and true. Burrs and rough edges shall be removed. During aluminum fabrication, all major bends shall be made with metal dies or fixtures to insure uniformity. Bolt holes shall be punched or drilled and all burrs shall be removed. Components shall be bolted in position before riveting. Jigs or frames shall be used to maintain alignment and tolerance. Welder's qualification certificate required. In accordance with MIL-B-52088C and Dwg. No. DL13211E7830. FSN 5420-522-9599. No security clearance required to obtain APPI. USAHEC.

APPI No. ME-36R1. Launcher, M60A1 Tank Chassis, Transporting: for bridge, armored vehicle launched, scissoring type, class 60, Launcher shall be fabricated of high strength steel and certificate of test conducted in accordance with Standard Federal Test Method STD No. 151 shall be furnished to the contracting officer. High pressure hydraulic system shall withstand working pressure of 3,800 psi and proof pressure of 7,000 psi without external leakage or damage. Cylinders shall operate at 3,800 psi sustained working pressure without malfunction or leakage and withstand 7,000 psi proof pressure without external leakage or damage. Hydraulic hose shall consist of seamless compound inner tube, reinforcement consisting of wire braid(s) or spiral plies of high tensile steel wire or oil, weather and abrasion and outer cover shall be oil, weather and abrasion resistant synthetic rubber. Hose shall be storable at ambient temperatures from minus 65 degrees F to plus 155 degrees F and usable from minus 25 degrees F to plus 200 degrees F. All sequencing valves, pressure relief valves, check valves, flow regulators and the filter shall operate at 3,800 psi working

pressure and hydraulic fluid temperature of 190 degrees F and shall withstand a 7,000 psi proof pressure without malfunctioning or failure. Launcher shall launch, disconnect and recover 63 foot AVL bridge without evidence of defects. Launcher is intended to be used in an assault operation for launching an AVL bridge across a gap. In accordance with MIL-L-52325 and Dwg No. DL13211E3100. FSN 5420-889-2020. No security clearance required to obtain APPI. USAHEC.

APPI No. ME-37R2. Crane, Wheel Mounted, 5 Ton, diesel engine driven, hydraulic, pneumatic tired, air transportable. The crane shall consist essentially of a 4 wheel drive; 4 wheel steer; pneumatic tired; diesel engine driven carrier with front end mounted, hydraulically operated dozer blade and rear end pintle hook. Carrier shall be a heavy framed, two axle supported, rubber tired vehicle having the general characteristics of an off highway type tractor for mounting a revolving crane superstructure and appropriate front end dozer. Carrier shall be equipped with a center mounted, full revolving boom with a telescoping boom, including a manual extension, hydraulically operated cable drum, hydraulic system, and operator's station with complete operating controls. With 24 foot rated boom length and 10 foot rated boom radius. Crane shall be adaptable to and operate as a 3/8 yard capacity hydraulically operated clamshell. Crane equipped with basic boom and dozer blade shall negotiate 15 percent side slopes, travel on paved level roads at speeds up to 27 mph. Shall perform in any ambient temperature from plus 120 degrees F to minus 25 Degrees F. Shall be processed to have the inherent capability of fording fresh or salt water to a depth of 1 foot above the top of the transmission without damage to crane or carrier. Lifting and takedown attachments shall be provided. Equipped with a 4 wheel, power service brake system capable of safely stopping, holding, and controlling movements, including submersion in water, and with an emergency parking brake. A 24 volt, waterproof, electrical system for service and blackout night travel, lighting of the work areas at night, slave starting the engines of other vehicles, maintaining charge in the batteries, and starting the engine. Hydraulic powered outriggers shall be provided. The power train shall consist of a diesel engine located at the rear of the carrier delivering power to a torque converter, clutch, transmission units, and drive axles. The diesel engine shall be an industrial type conforming to MIL-E-11276. Engine shall be provided with a solenoid actuated electric starting motor. The front wheels shall be steered through worm and sector, ball nut, or cam and lever; shall be hydraulically assisted; and the rear wheel steering shall be fully hydraulic. The gross vehicle weight in operable condition and fully serviced shall not exceed 29,000 pounds. The safety characteristics shall eliminate hazards to personnel and to property. These cranes are intended for the following uses: Portable bridge emplacement and removal. Construction work as a crane or clamshell. Light dozer work. Cargo handling. Missile handling (highly maneuverable and precise control). Prime mover-trailed vehicles. In accordance with MIL-C-52220A, with Amendment 2, Size 1. FSN 3810-828-4457. No security clearance required to obtain APPI. USAHEC.

APPI No. ME-38R1. Air Conditioner, 60,000 BTU, floor mounted, air cooled, 208/416 volts, 60 cps, 3 phase. Air conditioner shall be self contained, operate from both 208 volt, 50/60 cps, 3 phase, 4 wire source and 416 volt, 50/60 cps, 3 phase, 4 wire source. Cabinet shall be fabricated of aluminum with enamel finish. Air conditioner shall be designed for dichlorodifluoromethane with semihermetic type compressor and air cooled condenser. Unless otherwise specified, air conditioner shall be furnished with wiring connected to operate on 208 volt, 50/60 cps, 3 phase, 4 wire service. Weight of air conditioner charged with refrigerant and oil shall be not more than 1,150 lbs. Air conditioner shall start and operate on cooling cycle at sea level with plus 125 degrees F ambient temperature and air at plus 12 degrees F temperature entering the evaporator; on cooling cycle at sea level with minus 25 degrees F ambient temperature and 100 degrees F to 125 degrees F entering the evaporator; on ventilation 1 ambient temperature as low as minus 65 degrees F. Refrigeration system shall be of vapor cycle type employing refrigerant conforming to BB-C-310, type 12, and shall be furnished with a full charge in system. Fresh air damper opening shall be manually regulated. Evaporator and condenser fan motor shall be equipped with thermal overload protector and electrical controls shall consist of remote control panel, condenser service switch and crankcase heater controls. Air conditioner shall be storable at an ambient temperature of plus 155 degrees F for 4 hours daily for a period of 2 days and at minus 65 degrees F without solar radiation for 3 consecutive days. Air conditioner is intended for use providing cooled air to maintain adequate work temperatures in vans or shelters. In accordance with MIL-A-5250A and Dwg No. DL13211E3810. FSN 4120-739-4321. No security clearance required to obtain APPI. USAHEC.

APPI No. ME-39R2. Air Conditioner, 38,000 BTU/HR, base mounted, self contained, multipackaged, lightweight, air cooled, air transportable. Shall operate automatically on the cooling cycle and either manually or automatically on the heating cycle. Shall be connected for operation on 208 volt or 416 volt, 3 phase, 400 cycle, 4 wire power, and shall be furnished with a compressor motor of the same characteristics. The weight of the air conditioner including the remote control panel and charged with refrigerant and oil shall not be more than 365 pounds. The refrigeration system shall be of the vapor cycle employing dichlorodifluoromethane conforming to specification BB-C-310, type 12 and shall be furnished with a full charge in the system. Cabinet shall be made of aluminum, enamel finish. Equipped with semihermetic type compressor and air cooled condenser. Electric motor powered using 3 motors; one used for compressor, 8.4 HP, ac, 416 volts 400 cps, 3 phase; one used for condenser fan, 3.02 HP, ac, 208/416 volts, 400 cps, 3 phase; one used for evaporator fan, 0.89 HP, ac, 208/416 volts, 400 cps, 3 phase. Nominal cooling capacity 38,000 BTU per hour with an air flow of 1300 CFM rated capacity. Nominal heating capacity 35,000 BTU per hour with airflow of 1300 CFM. The air conditioner is intended for use in providing cooled air to maintain adequate working temperatures in vans, trucks, trailers or shelters. Air conditioners may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52195A with Amendment 2 and Dwg No. DL13211E0000, FSN 4120-791-9459. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-41. Cancellation of APPI. APPI No. ME-41, Filter Kit, Infrared, published previously in the 5 October 1965 issue of Commerce Business Daily, is hereby cancelled by USAFEC.

APPI No. ME-115. Generator Set, Gasoline Engine-Driven, 7.5 KW, 28 volt, direct current, 2 wire, winterized, wheel mounted. Set shall consist of an air or water cooled engine connected by a speed increaser to an aircraft type, dc generator, voltage regulator, cutout relay, battery, wiring, controls, control cabinet, wheel mounted frame, winterization equipment and other components and devices as required. Maximum dry weight shall be 810 lbs with maximum dimensions of 40 inches long (exclusive of towbar or cable hooks), 40 inches wide and 40 inches high. Operating (rated) speed shall be 6,000 rpm. Canvas cover shall be provided for storage and winterization enclosing top and four sides of set with flap covered opening for cooling air. Set, without external heat, shall start and operate at ambient temperatures from plus 125 degrees F to minus 25 degrees F at all relative humidities; with 3 inches of rain per hour impinging on set at angles from vertical to 45 degrees; with base in planes from level to 15 degrees and at 8,000 feet above sea level at ambient temperature of 90 degrees F. Set, with external heat, shall start and operate at ambient temperatures from minus 25 degrees F to minus 65 degrees F. Electrical circuitry, including all components and connections shall be fungus and moisture resistant except those whose functions would be adversely affected. Tire size 4.80/4.00 x 12, 4 ply, tire hook shall be bolted to rear of frame. Lifting attachment shall be provided on top of set. Industrial type gasoline engine and accessories conforming to MIL-E-11275, group II shall be provided with fuel tank, fuel filter, governing system, cranking system, manual engine control and exhaust system with muffler. Generator conforming to MIL-G-6162 shall be provided with voltage regulator, blower system, control cabinet, power cable and ground stud. Belt transmission shall be provided to transmit engine power to generator and blower system. No set shall be shipped without repair parts, maintenance tools, operating tools, literature and accessories unless authorized by contracting officer. Set is intended to provide electric power support for aircraft starting and checkout. In accordance with MIL-G-52450A, FSN 6115-914-4642. No security clearance required to obtain APPI. USAFEC.

APPI No. ME-45R1. Air Conditioner, 18,000 BTU/HR, base mounted, self contained, compact lightweight, air cooled, the refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor motor assembly shall be the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. The motor shall operate on 208 volt, 3 phase, 50/60 Cycle a 2.5 hp. ac, 208 volt, 50/60 cycle, 3 phase; for the condenser and evaporator fan a 2 hp. ac, 208 volt, 50/60 cycle, 3 phase. Nominal cooling capacity heating capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum with enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 230 lbs. The air or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed

indoors or may be exposed to the weather. In accordance with MIL-A-52344A, class 1 and Dwg. No. DL13211E8400, FSN 4120-959-4453. No security clearance required to obtain APPI. USAFEC.

APPI No. EL-183. Central Office, Telephone, Manual AN/TTC-7A. A complete telephone switching center to interconnect common battery local battery and trunk lines. May be expanded on a 4-panel multiple basis to interconnect 1000 lines and 160 trunks. No security clearance required to receive APPI. USAFEC.

APPI No. EL-184. Cable Assembly, Special Purpose, Electrical CX-11230(J)/G. A cable assembly capable of being air-layed and designed for use in comm systems utilizing 24 or 48 freq div channels, time dw systems and transmission of wide band data. No security clearance required to receive APPI. USAFEC.

APPI No. EL-185. Telephone Set TA-312(J)/PT. A lightweight, portable field telephone which is designed for general purpose use. No security clearance required to receive APPI. USAFEC.

APPI No. EL-186. Radar Set AN/PPS-5(). A lightweight, miniaturized, combat surveillance radar utilizing a silent type power supply. This equipment is capable of detecting and locating, under conditions of poor visibility, moving targets such as personnel and vehicles. Also capable of detecting and locating large fixed targets under line-of-sight conditions. To be used in forward combat areas to provide intelligence of enemy movements. No security clearance required to receive APPI. USAFEC.

APPI No. EL-187. Tactical Imagery Interpretation Facility AN/TSQ-43 and AN/TSQ-43(). The van is a mobile unit containing photographic interpretation equipment for the purpose of interpreting photographic material surveyed from the air by photographic infrared and radar sensors. No security clearance required to receive APPI. USAFEC.

APPI No. EL-188. Radio Set Control Group AN/GRA-39A. Allows an operator to transmit or receive voice communication through a radio set from a distance of 2 miles away. No security clearance required to receive APPI. USAFEC.

APPI No. EL-189. Radio Teletypewriter Set AN/GRC-142(). Provides one-way reversible (simplex) SSB voice, teletype and CW communications over 50 miles ground wave range. Provides for transmission and reception of frequency shift radio teletype using narrow shift (85 cycle), wide shift (850 cycle) or simultaneous SSB voice pulse narrow shift (85 cycle). No security clearance required to receive APPI. USAFEC.

APPI No. EL-190. Intercommunication Set AN/VIC-1(V). A variable vehicular type intercommunication set which will provide communication between operating personnel in various type of vehicles. No security clearance required to receive APPI. USAFEC.

APPI No. EL-191. Radio Set AN/VRC-12(). Provides radio communication in frequency range of 30-76 mc; can monitor two channels simultaneously. No security clearance required to receive APPI. USAFEC.

APPI No. EL-192. Terminal, Telegraph-Telephone AN/TCC-29 and AN/TCC-29(). Provides simultaneous of speech signals with voice-frequency telegraph (speech-plus-duplex operation) and voice-frequency ringing signals. No security clearance required to receive APPI. USAFEC.

APPI No. AV-178R1. Indicator, Pressure, Dial, 1 oil pressure scale, 0 to 100 PSI scale range, 5 PSI graduated increments, fluorescent letters, numerals and lined increments, clock hand pointer, fluorescent illuminated, incased, without instrument lamp socket, electrical, AC, 26V 400 cycles single phase, 1 electrical connection, 3 pin contacts, and 10066C-10SL-3P, O/A dim., 2.5/8 in. lg., 2 in. dia., clamp mtg., a QPL item. Interested concerns should contact Wright-Patterson Air Force Base (SEFIP), Ohio, in prior to solicitation, QPL No. 25438-2, FSN 6620-557-0582. No clearance required to receive APPI. USAFEC.

APPI No. AV-189. Altimeter, Pressure, Type AAU-A-27229A with amendment, Applicable to multiple aircraft. This item is on QPL list 27229-3. Interested concerns should have their product tested and approved by contacting Wright Air Development Division, Wright-Patterson Air Force Base, Ohio, FSN 6610-722-9067. No clearance required to receive APPI. USAFEC.

APPI No. AV-190. Transmitter, Pressure, Electrical data, AC, 26V 400 cycles, single phase, Connection 3P. Other than electrical connections, 1 7/16 in. internal tube connection, 1 1/16 in. dia., external mtg connection, Pressure sensing element, O PSI to 50 PSI measurement range, O/A dim. 4-23/32 in. lg., 2-1/4 in. dia., mtg. data, 1 attaching point, thread connection, MIL-T-25577, type MH-4, Appl., engine instrument acct. This item is on QPL list 25577. Interested concerns should have their product

tested and approved by contacting Wright-Patterson Air Force Base, Ohio, FSN 6620-553-8854. No clearance required to receive APPI. USAFEC.

APPI No. AV-191. Indicator, Attitude, External stabilization, pointer, used to show bank of aircraft, nonluminous finish, single phase, DC, 28V, 1 electrical connection, O/A dim., 8.225 in deep 5.000 in. dia., with instrument lamp, 14 pin contacts, bezel mid, 1 knob, for pitch trim. This is a QPL item. Interested concerns should contact Command, Research and Technology Division, Systems Engineering Group, Aeronautical Systems Division, Wright-Patterson Air Force Base, Ohio, in order to have their product tested and qualified prior to solicitation, FSN 6610-965-9840. No clearance required to receive APPI. USAFEC.

APPI No. AT-131R1. Battery, Dry Charged, 12V type 2HN 45 AMPH. This APPI was originally released 7 March 1967 and this revision reflects changes in the forecasted quantities, MS-35000-1, Specification MIL-B-11188. No clearance required to obtain this APPI revision. USATAC.

APPI No. AT-140R1. Carburetor Assembly, ORD 1092911. This APPI was originally released 7 March 1967 and this revision reflects changes in the forecasted quantities, FSN 2910-788-8457. No clearance required to obtain this APPI revision. USATAC.

APPI No. AT-116R1. Battery, Dry Charged, 12V type 6TN 100 AMPH. This APPI was originally released 3 January 1967 and this revision reflects changes in the forecasted quantities, MS-35000-3, FSN 6140-057-2554. No clearance required to obtain this APPI revision. USATAC.

APPI No. AT-92R1. The Pneumatic, 900 x 20, 8 Ply, NYCC, Nylon. This APPI was originally released 6 September 1966 and the changes reflects changes in the forecasted quantities, ORD 515090, Specification MIL-T-46729-A, FSN 2610-262-8677. No clearance required to obtain this APPI revision. USATAC.

APPI No. AT-141. Sprocket, Drive, Track, ORD 8671597 is the drive sprocket for track on various combat tanks. The sprocket is composed of Alloy steel plate 1-5/8" thick x 27-3/4" O.D. The I. D. is machined & has a series of bolt holes for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - Multiple - FSN 2530-318-0229. Security clearance is not required to obtain this APPI. USATAC.

APPI No. AT-142. Sprocket, Final Drive for M-88 VTR, ORD 8705893 is the drive sprocket for track on this vehicle. This sprocket is composed of Alloy steel plate 1-5/8" thick x 28-1/4" O. D. The I. D. is machined & has a series of holes used for mounting purposes. The teeth are usually flame cut and then finished machined by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-298, FSN 2520-293-5136. Security clearance is not required to obtain this APPI. USATAC.

APPI No. AT-143. Sprocket, Track Drive, ORD 10891835 is the drive sprocket on the M107 - M110 family of Tanks. The sprocket is composed of Alloy steel plate 1-1/4" thick x 23-1/2" O. D. The I. D. is machined & has a series of bolt holes for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-295A, FSN 2520-732-3633. Security clearance is not required to obtain this APPI. USATAC.

APPI No. AT-144. Sprocket, Track Drive, ORD 10954052 is the drive sprocket on the M108, M109 Tanks. The sprocket is composed of Alloy steel plate 1 3/4" thick x 21 5/8" O.D. The I.D. is machined and has a series of bolt holes used for mounting purposes. The teeth are usually flame cut and finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPL - G-296A, FSN 2520-789-2204. Security clearance is not required to receive this APPI. USATAC.

APPI No. AT-145. Pin, Shoe, Link, ORD 10898687 is the pin that connects the sections of track shoes into a continuous belt, and is used on the M107 - M110 family of Tanks. The pin is composed of 7/8" octagonal alloy steel x 18" (approximately) long w/threads on both ends. This item is not considered difficult to manufacture. SNL G-295A, FSN 2530-733-8153. Security clearance is not required to receive this APPI. USATAC.

APPI No. AT-146. Pad, Track Shoe, ORD 10866-003 is the removable rubber pad on T-130 track used on the M113 family of personnel carriers. Pad is composed of molded rubber and is approximately 2" x 6" x 8". This is a QPL item. SNL APPL - G-294 & G-312, FSN 2530-690-2681. Security clearance is not required for this APPI. USATAC.

APPI No. AT-147. Wheel, Idler, ORD 10907799. Idler wheel is cast of Alloy steel, 17 1/4" O. D. x 3 1/8" thick. The I. D. is machined & there are bolt holes located around the hub for mounting purposes. This item is not considered difficult to manufacture. SNL APPL - G-294 & G-312, FSN 2530-856-2299. Security clearance is not required to obtain this APPI. USATAC.

APPI No. AT-148. Sprocket Drive. ORD 8763353 is the track drive sprocket on the M113 family of personnel carriers. The sprocket is composed of Alloy steel plate 13/16" thick x 22 1/16" (O. D.). The I.D. is machined & has a series of bolt holes for mounting purposes. The teeth are usually flame cut & finished by grinding or milling. This item is not considered difficult to manufacture. SNL APPI - G-294, FSN 2520-679-7956. Security clearance is not required to obtain this APPI. USATAAC.

APPI No. AT-149. Project manager, Army Corps of Engineers, is planning award of a multi-year contract for production of M Series 2 1/2 Ton Trucks during September 1967 and a contract for production of the M656 during February 1968. The quantities of trucks to be procured will require 16-20 tires commencing about 1 July 1968 as original equipment to be procured by the prime vehical contractor. Forecast of replacement requirements is not yet available. The 16-20 tire is a new Low Section Height military tire designed for maximum cross country mobility with no previous procurement history except for small experimental lots. It is desired to consider both conventional Bias Ply and Radial Ply constructions. The APPI contains detailed proposed procurement specifications for each type tire. The purpose of this release is to generate interest and encourage the tire industry to initiate plans for establishing production facilities. Comments are invited on the proposed specifications, estimates of lead time required for production and estimates of the probable cost per tire in the quantities involved. Security clearance is not required to obtain APPI USATAC.

NOTICE

The following is a reprint from **COMMERCE BUSINESS DAILY** (published by the U. S. Dept. of Commerce, Chicago, Ill.) issue, dated June 6, 1967 page 2, No. PSA 4325 except that the potential suppliers source of information (Name and Address of Installations) will be found on page 2, top of column 1 first three paragraphs.

APPI No. EL-193, Public Address Set AN/GIH-3(C). Lightweight transistorized public address system designed for military ground and vehicular service. Each set will consist of a 250 watt amplifier with high and low impedance inputs, a remote control unit, noise cancelling microphone, and high efficiency, multi-horn, loudspeaker unit. Facilities are provided to drive additional amplifier units from a one signal source. Operates from standard vehicle power sources and is capable of projecting voice messages and music to distant targets. No security clearance required to receive APPI. **USAEOM.**

quired to receive APPI. USAECOM.
APPI No. EL-194. Coder-Burst Transmission Group
 AN/GRA-71(1). A complex of components that en-
 ables a man without skill in Morse Code to pre-
 record a Morse Code message on tape and sub-
 sequently use it to key the Radio Transmitter of the
 Radio Set AN/GRC-109. No security clearance re-
 quired to receive APPI. USAECOM.

APPI No. EL-195. Radio Set AN/PRC-62(c). A man-packed set which provides communication between combat units operating in jungle, desert or other areas. The set is continuously tunable in one kc steps over the frequency range of 2 thru 29,999 mc, thus providing 27,999 channels. This equipment is capable of operation while being transported. No security clearance required to receive APPI—USAECOM.

APPI No. EL-196. Transmitting Set AN/TRT-22C. Air transportable 50 KW MF radio broadcast transmitter facility. No security clearance required to receive APPI. USAECOM.

APPI No. EL-197, Communications Central AN TSC-266). Provides facilities for receiving H.F. Radio signals which may be manually keyed or high speed burst C.W. Telegraph. No security clearance required to receive APPI. USAECOM.

to receive APPI. USAECOM.

APPI No. EL-198. Radio Terminal Set AN/GR 163(). This configuration consists of all components necessary to provide Multiplexed FM transmission of 4 ea. telephone channels simultaneously in the frequency range 30-76 MHz. Equipment may be mounted in a jeep or 1/4 ton trailer on a removable pallet. The pallet may also be placed on the ground and the equipment operated independently from the vehicle. No security clearance required to receive this APPI. USAECOM.

APPI No. EI-199. Modem-Digital Data MD-51/GRC. Functionally the same as Modem, Dig MD-667()/GRC and MD-668()/GRC but not mechanically interchangeable. No security required
 receive APPI. USAECOM.

APPI No. EI-200, Radio Set AN/GRC-103(V). Provides a full duplex multi-channel communication facility when used with 6/12 or 24 channel PCM or 4 channel PDM multiplex equipment. Operates in the frequency ranges of 220 to 405 MHz, 395 to 705 MHz, 695 to 1000 MHz, and 1300 to 1900 MHz when using the appropriate plug in units. No security clearance required to receive APPI. USA-ECOM.

APPI No. EL-201. Ringer Converter Telephone Signal CV-1548. Used at terminal stations to provide ring-down and /or supervisory signaling, for twelve communication channels. Capable of operating with Central Office Telephone. Manual AN/TTC-7 and Switchboard, Telephone, Manual SB-86/P. No security clearance required to receive APPI. USA-ECOM.

APPI No. EL-202. Multiplexer-TD-754)/G. When used with Multiplexer TD-753)/G, forms one terminal of a cable multiplex system. When used with Radio Set AN/GRC-103C forms a radio-to-cable conversion repeater. This device processes 6, 12, 24 or 48 channel rate (PCM-TDM) digital communication signals for cable transmission. Two Multiplexer TD-754)/G form an attended repeater. No security clearance required to receive APPI. USAECOM.

23. A complete shelter-installed direction finding facility providing elevation and azimuthal data. No security clearance required to receive APPI. USAF ECOM.

ECOM. APPI No. AP-IR-2. Case, Cartridge, 105mm, M148A1B1, one piece Design, manufactured from a spheroidized steel disc, deep drawn, approximately 23.975" L x 5.3302" OD at base to 4.121" ID at mouth, wall thickness varies from approximately .085" to .059", body tapered and necked down, completely heat treated, varying from Rockwell C34 at base section to RB 85 maximum at mouth, material steel. Specification MIL-S-3289 machined primer holes and base, zinc plating with supplementary chromium treatment, application of film of wax emulsion to exterior surfaces Specification MIL-W-3688, ballistic testing required for each lot. Manufacturing firms producing this item will require a highly competent technical staff of engineers, metallurgists, chemists, and tool design engineers to design, fabricate and maintain precision tools for mass production of this item. This cartridge case is considered very difficult to produce to applicable specifications. No security clearance required to receive APPI. USAMUCOM.

APPI No. AP-2R-2. Case, Cartridge, 106mm
M94B1, Assembly, 24.0" L x 5.148" OD at base
3 major components, consisting of Tube, approxi-
mately 23.65" L x 4.698" OD tapering to 4.32" at
the mouth, wall thickness varies from 120" at base
end to .078" at the mouth, steel strip is perforated
with 1160 holes .312" in diameter and are welded
(submerged or inert gas shielded) to form tube, Rock-
well hardness requirement of C32 minimum at base
to B90 minimum at mouth, material, Steel, Strip
1030. Specification QQ-S-700, tube is copper brazed
to Head, 5.148" D x 93" L, .8074" D primer hole
and 1-3/8 threaded filler plug hole, annular groove
permitted on small OD, Special Bar Quality, Specifi-
cation ASTM-A107, Plug 1.375" D x 40" L, 1-3/4
external thread, .25" blind holes on one end
material, Steel, Special Bar Quality, Specification
ASTM-A107. Heat treatment and stress relief must
be performed on the cartridge case body to obtain
the required mechanical properties. The head area of
tube assembly receives a baked varnish finish after
phosphatizing. The plug is zinc or cadmium plated.
This case is considered very difficult to manufacture
in accordance with applicable specifications. No spe-
cial clearance required to receive this APPI. US
MUCOM.

APPI No. AP-13R-1. Fuze, PI, BD, M509A contains approximately (40) components and is cylindrically shaped, approximately 1-3/8" D and 15/16" L. The fuze is to be furnished detonator loaded with a fuze detonator furnished by MPTS manufacturer. Major components are: Housing; Rotor: cylindrically shaped with various size holes, slots, counterbores, shoulders; length, 1.441"; D, 1.350"; material is aluminum-alloy rod, 2011-T3 or T7-T4 Spec ASTM B211, ID .821". Shaft: shaft with a cylinder containing variably a shaft with a cylinder containing variable slots, counterbores, threads, and holes, on one end over-all length, 0.716"; shaft diameter, 0.125"; outer diameter, 0.745"; cylinder height, 0.372"; inner diameter, 0.745"; cylinder height, 0.372"; material is aluminum-alloy rod 2011-T3 or T7-T4 Spec ASTM B211. Cover, Booster: cup-shaped; OD 1.145"; I.D., 0.220"; material is aluminum alloy sheet 1100-N12 Spec ASTM B209. Shield; essentially hollow cylinder with dividing wall near one end, OD, 1.250"; ID 1.050"; L 1.648"; material is aluminum tubing, Spec QQ-T-830. Various smaller components required such as brass strip plates, pins, springs, washers, springs, spacers, leaves, contacts, and pistons. Assembled fuze subjected to following tests: arming, non-arming, functioning, jolt and vibration, and transportation vibration. Manufactured under contract to U.S. Navy. Manufacturers firms bidding on this item will require a

competent technical staff consisting of engineers, metallurgists, and tool engineers to design and maintain precision tools to produce and test the required parts. This item is considered very difficult to produce and test the required parts. This item is considered very difficult to produce in quantities normally required by Ordnance. In addition, a considerable amount of knowledge of various metal-working processes will be required to produce this item in accordance with Ordnance specifications. No security clearance required to receive this APPI. USA-MUCOM.

APCI No. AP-33R-2. Mine. APERS, M18A1, Paris Arrangement, Twelve (12) components. 8.464" L x 3.968" W x 4" H with leg and bracket assembly. Ball .700 each/.211 spherical diameter, material, steel, bar, C1015 to C1020. Specification, QQ-S-633, alternate. steel, wire, 1015 to 1020. Specification, QQ-W-461, Carborize, case depth, .045 to .065, heat treat to surface hardness of Rockwell C43 to C52. Case, 8.464" L x 3.968" W x 1-3/8" H on a curved radius x 7/8" additional width for sighting section, one piece, material, plastic, polystyrene glass filled, Type I. Specification MIL-M-21347. Color green, similar to No. 34096 or 34102 of Federal STD-595. Cover, 8.651 L x 3.63" W x 5/16" H, material, same as Case above, segments and sections of case and cover are made up of varying wall thickness. Bracket, Angle, .2 each/ right angle, each leg .705 L x .52" W x .125" thick with two .2/ .196" D holes, material, steel, strip, hot rolled. Specification, ASTM-A415. Leg 7/4 ea/4.398" L x .265" W x .125" thick with 64" D one end. material, steel, strip, hot rolled. Specification ASTM-A415. Washer spring, 4/ each/ approved source. Shakeproof, part no. 3502-10-56 stainless steel or government engineering approval required. Rivits 7/4 each/ military standard. Washer, .2 each/ military standard. Cup, Well, .2 each/ cup shape. 1.57" L x .281" D x .010" thick with .385" flange edge, material aluminum alloy, sheet, 1100F, Specification ASTM-B-209. Shipping Plug, priming adaptor, eccentric shape, threaded both ends, with .25" hole one end. .32" hole opposite end, material, plastic, polyethylene, molded. Type I, Class I. Specification, L-P-390, color same as case and cover. Balls to be bonded inside case using Devocon B-1835 in a matrix. Mine case and cover shall meet stringent load requirements of 175 pounds and 60 pounds respectively, plus field hot and cold temperature conditioning and testing. Tooling and molding process equipment is extensive and requires a high fabricating process capability, with field control of basic molding materials. Manufacturing firms bid to bid on this item will require metallurgists, plastic technicians, engineers and tool design engineers to design and maintain precision tools for mass production of large quantities of this item normally required by the Army. This item is considered extremely difficult to manufacture. No security clearance required to receive APPI USAMUCOM.

[illegible]

or QQ-A-225/6A; Piston, .293" L x 1.88" in diameter, 1.38" internal diameter on large and necked down in 2 steps on a .196 internal diameter on the small end, 1.625" thread on large OD, circumferential rack gear tooth on opposite end, material, steel, carbon, bar, cold finished. Specification ASTM-A108; Stop, Piston, .51" L x 1.824" OD and 1.625" thread on the ID, undercut and taper on OD, material, steel, carbon, bar, cold finished, 1137 or 1117, Specification ASTM-A108 or steel, tube, seamless CDST, MT1020, 1022 to 1035 Specification QQ-T-350, other parts are pins .6 each and an "O" ring. This item must withstand vigorous ballistic tests for such characteristics as security of metal parts, fin opening and penetration. Manufacturing firms producing this item will require a competent staff of engineers, metallurgists and tool designers. The item is considered extremely difficult to produce in accordance with applicable specifications. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-51R-3. Rocket, Motor, 66mm, M54. This APPI which was issued 4 April 1967 is corrected to show Alcan Aluminum, Riverside, California as the current supplier in Block 4b. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-66R-1. Mine, AT M24. This item essentially consists of the Firing Device, Demolition, XM61, Rocket Launcher Assembly XM143 and the Cable Assembly, Vehicle Detector. Fundamentally, the complete assembly is a complex electro-mechanical device. Major assembly drawings for these basic units which are part of the complete XM24E1 end item are classified. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-72R-1. Projectile, Chemical, M121E1 MPTS Assembly consists of six .6/ components, Body, approximately 23.75" L x 6" D, nose section threaded and precision finished with 16 to 32 micro-inches, material, steel, ASTM-A273 or MIL-S-13110, Adapter, Fuze, 2.88" D x 2.23" L x 1.909" ID, external and internal threads, material, steel, ASTM-A107 special bar quality or steel tubing, Specification QQ-T-830, Rotating Band, 6.36" D x 6.09" ID x 1.675" W, material, gilding metal, Specification MIL-B-20292 or MIL-B-20295, Gasket, 2.19" D x .44" ID x .125" thick, material, rubber, neoprene, or S. Class SC, Grade SC515, Specification MIL-65, VCI Paper, approximately 20" square, material, volatile corrosion inhibitor paper, Type I, Class C, Specification MIL-P-3420, Gasket Strip, 2.83" D x 2.5" ID x .13" thick, material, rubber, Specification MIL-R-3065, Type S, Class SC, or SC820 A, B, as specified in MIL-STD-417, netic particle inspection in the nose section of a projectile is required. Each projectile must stand a helium gas test. Exterior is surrounded by one atmosphere of helium, a maximum of .001/200 microns of mercury absolute pressure. Minimum leak permitted is 1 x 10 minus 6 centimeters per second. Projectiles are packed on wood pallets for shipment. This item is considered very difficult to produce to specification requirements. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-74R-1. Fin Assembly, M2, 2.375" D x 2.535" L and consists of two components, Cartridge Container, .94" D x 2.420" L, one end has 75-18NS-2B internal threads, .4" minimum depth, and a .840" D x .966" deep counterbore. The other externally 625-18UNF-2A x .265" L. Sixteen, .1865" D holes extend radially through the sidewall into the .658" D cavity at various locations, material, steel, bar, carbon, CF, Grade 1137, Specification ASTM A108, Fin, .0625" thick x 1.909" L, single piece construction consisting of two blades and a hub area. Hub area contains two .25" D holes prior to forming of the .47" hub radius. Four fins per assembly are located on 90 degree centers and are copper brazed to cartridge container. Final protective finish. Specification MIL-STD-171, finish number 1.1.1 and 20.1, olive drab number X34087. The fin assembly is considered not difficult to produce. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-92R-1. Mine, AP, M16A1. Complete assembly is approximately 4" D x 3-1/8" L and consists of approximately 17 components. Body, 3.85" D x 3.89" L and 3.275" ID, 3.35" deep with counter-bore and threads, material, gray iron casting. Well, Detonator, cup shape approximately 1" D x 2.4" L with short threads on outside and inside, material, zinc base alloy, die cast or Polystyrene plastic. Plug top, 3.45" D x .40" thick with hub 1" thick x 1-3/8" D with 13/16" threaded hole, material, gray iron casting. Pipe, Flash, approx 1" D x 3.5" L and Zinc base alloy, die casting or 1/2" standard steel pipe commercial. Container assembly, 4.045" D x 4.74" L, fabricated from .014" thick steel by seam-welding and crimping. Other miscellaneous components consist of gaskets, copper strips, cup, detonator, aluminum sheet .015" thick, Plug, shipping, zinc base alloy, die casting or Polystyrene

plastic. Disc, flash, gilding metal .003" thick. Washer, lead sheet .062" thick. Plug, filler hole, steel 1009 to 1020 .059" thick. Gasket, rubber .078" thick. Bushing aluminum alloy rod 1.125" D. Holder, Delay, zinc die casting or aluminum rod .922" D. Housing Delay, zinc base alloy, die casting or aluminum alloy rod 1/2" diameter and Washer, Delay. Same material as Holder. Delay. Various components require phosphating, painting, plating, to meet various salt spray requirements. Manufacturing firms bidding this item will require a competent staff of engineers, metallurgists, and tool engineers to design and maintain precision tools. This item is considered somewhat difficult to produce in accordance with specifications. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-93R-1. Fuze, Mine, M605, MPTS--Is 4.44" L x approx. .94" W with 3 assemblies and 22 components. Release safety assembly, consisting of standard ordnance eyelet cotter pin and 10" cord, material, commercial glazed curtain flature #2 or commercial white 8 strand cotton cord. Pin, safety striker positive assembly, 2 components, cord, 10" L, material, cord, linen, waxed, 6 ply and pin, safety striker, 1.0" L, .111" max D with 3 machined steps to minimum of .044" with holes drilled in diameters at each end, material, zinc base alloy, die cast, comp. B, alternate, aluminum alloy die cast, comp. 5, 5A, 10 or 11. Prong, 3 ea., 1" L x .075" D with flats .078" x 1/16" W, 1/8" from end of prong, material, steel, music wire. Head, safety, .50 L x .285" D, drill thru .125" D with slot .075" x L, material, aluminum alloy rod, condition T, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11, alternate zinc base alloy, comp. B, Pin, 1.9" L x .0360" D with .08" eye ID at one end, material, steel, music wire. Pin, .98" L x .280" D with machined flat on side to .246" x .55" L off center hole .312" D, and trunnion, .212" D x .425" L, material, Steel, bar FS1117, CF. Trigger, 1.225" L, material, diameter .665" step diameter .375" with .129" center hole tapered .226" deep on one end with .42" I, flat on opposite end, material, zinc base alloy die cast, comp. B, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11. Ring release, 3/8" OD with 2 projecting ends, approx 2 full coils, material, steel, Spring, .194" OD x 4-1/2 coils, free height, .277" material, steel, .025" D music spring wire. Spring, .29" OD x 18-1/2 coils, free height, 1.473", material, steel, .045" D, music spring wire. Striker, 3.213" L x .126" D with collar .21" D with flats .150" W and 2 flats .076" D at approx 1.45" from 30 degree taper point, material, steel, bar, FS1117, Case, 2.13" L x .505" D with two stepped collar .755" and thread with .4375" ID, material, zinc base alloy die cast, comp. B, alternate aluminum alloy die cast, comp. 5, 5A, 10 or 11. Washer, 8 point star shaped, .368" D x .128" ID x .0538" thick material, steel strip, FS1009, CR, temper #2, finish #3, alternate, steel, strip, FC1015 or FS1020, CR, temper #4, finish #1, Gasket, .75" OD x .52" ID x .078" thick, material, synthetic rubber, sheet, type RS, 510HF2, Spring, .65" OD, 3 coils, free height, .57" material, steel, .051 D diameter, music spring wire. Plug, .348" OD tapered at 15 degree x .13" ID x .173" thick. Housing UNF-1A .115" L and thread .4375"-20 x .37" L, material, aluminum alloy rod, alternate, zinc base alloy, comp. B, Head, flash igniter, 1.4" L x .375" max D with one end thread, .4375"-20 UNF-1A .05" to .24" L, center bores .199" D x 1" grooved on opposite end, Tube, cup shape, 1.44" L x .237" OD with .217" ID and .011 base wall, material, aluminum alloy, sheet, temper "O", This item is considered difficult to manufacture to applicable specifications. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-123. Firing Device, M57 -- The M57 Electrical Firing Device is a small hold pulse detonator which supplies electrical energy for handle of the M18A1 Mine. A single squeeze of the pulse (one positive, one negative) to the M4 electric blasting cap. The M57 can be activated more than 5,000 times without malfunction. Components: The armature, spring, cap, case (right and left hand). Dimensions: Length -- Overall, including the handle connector is approx 4". The length excluding the handle in extended position -- is approx 3.625". The height with the handle in the depressed position is 1.3". Material: Case and handle -- plastic polystyrene, glass filled type I, Spec MIL-M-21347. STD 595 Note 6. Connector, male -- This is a two prong connector moulded in rubber which is assembled as an integral part of the completed assembly. The rubber insulation material is type R, Class RS, Color (black) -- Grade 615 A, B, F, K energy, when handle is depressed shall measure not less than 18 milliwatt-seconds nor more than 30

milliwatt-seconds as dissipated through 1.76 ohms in a 3.25 ohm load. Total time to deliver this energy shall not exceed 24 milliwatt-seconds, nor be less than 10 milliwatt-seconds, actuating mechanism shall return to original cocked position and be capable of repeated use with a double pulse (positive and negative) for each actuation. Actuation criteria approx 5,000. The M57 is a difficult to make, therefore, the contractor should have a highly competent engineering, production, and quality assurance capabilities. Further, the contractor must be capable of meeting all applicable specifications. No security clearance required to receive APPI, USAUUCOM.

APPI No. AP-124. Test Set Electric, M40 -- The M40 Test Set is a small auxiliary test device for the M57 Firing device. Its function is to test the electrical pulse output of the M57 by means of a visual neon indicating light. M40 case is rectangular in shape with a protruding two-prong male connector on one end and a two-socket female receptacle on the other. The connector pins and receptacle sockets are moulded in a rubber elliptical configuration. The internal circuitry consist of an appropriate position to simulate the load and a neon indicating bulb which is viewed externally through a small glass window of the test unit. Dimensions: The case length, less connector and receptacle, is approx 2.25". Overall length, including receptacle and connector, less dust covers is approx 3.125". Width of case is approx 1.25". The case thickness is approx 1.3". Material Case -- polystyrene, glass filled, type I per MIL spec. MIL-M21347, the color shall be green -- No. 34096 or 34102 per FED-STD-595, Note 6. Molding material (connector and receptacle) -- Type R, Class RS -- Color, black -- Grade 615 A, B, F, K per MIL-R-3065. This item is not considered difficult to make. No security clearance required to receive APPI, USAUUCOM.

APPI No. FA-60. M2A1 Box. Required for diversified use in the packaging of small arms ammunition and artillery fuzes. Steel construction hinged cover with carrying strap and sealed gasket. Approximate dimensions 12 x 6-3/12 x 7 1/2. No Federal Stock Number. No security clearance required to receive APPI, USAUUCOM.

APPI No. FA-61. M28 Initiator. Consists of a constant volume chamber with a pressure outlet port, incorporating a standard pressure fitting, a gas pressure actuated firing mechanism and AM91 Cartridge. A length of tube or hose connects the initiator to another remotely installed propellant device. Is considered difficult to produce and requires rigid inspection and Quality Assurance. FSN 1377-724-9886. No security clearance required to receive APPI, USAUUCOM.

APPI WE-273. Aperture, Rear Sight. This is a small arms part for the M79 Grenade Launcher. This component is made of brazed steel. It is stamped, formed, milled, heat-treated, and phosphate coated. This component is moderately difficult to make. FSN 1010-440-1153. No security clearance required. USAUUCOM.

APPI WE-274. Lathe, Engine. Designed for bench use, solid bed type, 10 in. rated swing, 20 in center distance w/solid bed, step cone pulley, back geared drive headstock, No. 2 Mouse taper center size, 1 3/8 dia hole through spindle, 8 spindle speeds, min, hand & power cross feed, 1 carriage, quick change gears, 30 feed changes, min, electric motor drive, 3/4 hp, ac, 110 v, 60 cycle, single phase. In accordance w/Ord Dwn No. 7541300. In accordance with Fed Spec QQ-L-125, FSN 3416-517-0055. No security clearance is required. USAUUCOM.

APPI WE-275. Kit, Tubless Tire Repair (Outside In) Adams PSP Inc. Model 100 or equal. Include: Metal Carry Box 1 ea. -- Injector Tool with Needle 1 ea. -- Refill Cartridge 4 ea. -- Leak Seeker Dispenser 1 ea. -- Leak Seeker Matriel 1 ea. -- Bonding Compound 2 ea. -- Skinning Knife 1 ea. -- Needle, 8" 2 ea. -- FSN 4910-922-6921. No security clearance is required. USAUUCOM.

APPI WE-276. Meter, Time Totalizing. A direct reading drum type indicator with other technical requirements. Meter is to be in accordance with Spec. MIL-M-3971 and Ord. Dwg. C8636343. FSN 6645-557-0159. No security clearance is required. USAUUCOM.

APPI WE-277. Case, Lubricant for Rifle M1, M14, and launcher grenade M79. The lubricant case consists of the tube assembly; Cap assembly, grease; and cap assembly, oil. The entire case has a maximum length of 2.7 inches. FSN 1005-791-3377. No security clearance is required. USAUUCOM.

APPI WE-278. Safety. This is a small arms part for the M14 and M1 Rifles. The material requirements for wrought material are steel, Fed Spec. QQ-S-634:1021 and for precision castings, steel, MIL-S-22141:IC-8620. Inspection will be in accordance with MIL-C-6021. Heat treatment is required for all material. FSN 1005-554-6015. No security clearance is required. USAUUCOM.

APPI WE-279. Counter, Rotating, Mechanical, Direct Drive. This counter is utilized on the M13, M115, and M117 panoramic telescopes. Counter shall meet the requirements of Spec MIL-C-60618

with dimensions and tolerances in accordance with MIL-STD-8, FSN 6680-907-0737. No security clearance is required. USAWECOM.

APPI WE-280. Reticle. This is a component of the M3, M13, and M13A1 Binoculars. It is in accordance with MIL-P-14619 and is considered difficult to manufacture. Inspection Requirements are listed in the TDPI, which will be available to all interested bidders. FSN 6650-617-3980. No security clearance is required. USAWECOM.

APPI WE-1. Rifle, Cal. .22, M12 published previously in the 2 March 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-2. 22 Cal. Automatic Pistol published previously in the 2 March 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-5. Armament Subsystem, Helicopter, 40 MM Grenade Launcher M5 published previously in the 1 June 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-8. Shotgun, 12 Gauge, Riot Type published previously in the 7 September 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-12. Swab published previously in the 2 November 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-13. Magazine, Cartridge published previously in the 2 November 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-14. Target, Silhouette published previously in the 7 December 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-16. Stock Subassembly published previously in the 7 December 1965 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI WE-212. Range Finder, XM23E2 published previously in the 6 December 1966 issue of the Commerce Business Daily is hereby cancelled by USAWECOM.

APPI No. AV-191R1. Indicator Attitude, External stabilization, pointer, used to show bank of aircraft, nonluminous finish, single phase DC, 28V, 1 electrical connection, O/A dim., 8.225 in. deep, 5.000 in. dia., with instrument lamp, 14 pin contacts, bezel mtd., 1 knob, for pitch trim. This is a QPL item. Interested concerns should contact directorate of technical data, cataloging and standardization, standardization Division, U. S. Army Aviation Materiel Command, St. Louis, Missouri, 63166, Attn: AMSAV-MN, in order to have their product tested and qualified prior to solicitation. FSN 6610-965-9840. No clearance required to receive APPI. USAWECOM.

APPI No. AV-192. Release, Cargo, Parachute, 1300 pound minimum load capacity, 5000 pounds maximum capacity in accordance with MIL-Spec, MIL-R-43003B with amendments and NLAS drawing 11-1-71, Revision "E", FSN 1670-799-8494. No clearance required to receive APPI. USAWECOM.

APPI No. AV-193. Parachute, Cargo, 100 Ft. Dia. canopy, olive green, shade No. 106, nylon, flat circular, with reefing rings and cutter pockets. Size packed; 48-5/16 in. LG., 35-1/2 in. W., 6 in. H. 250 lbs. total packed weight. Attached by loops on 60 ft. risers. Load capacity 3500 lbs., @ 185 MPH. list of major components include; 1 canopy part number 48J7841-3, 1 bag, deployment number 50K7415 and 1 bridle part number 52D6354, in accordance with MIL Spec MIL-P-7620 and USAF drawings 51C6718 and others with exceptions. FSN 1670-269-1107. No clearance required to receive APPI. USAWECOM.

APPI No. AV-194. Parachute, Personnel, back style, 28 ft. dia. in accordance with USAF drawing 50C7024, latest revision, and details listed in bid. This item is on QPL list No. 6645-17 dated 24 March 1966, and MIL-STD-849, 8 April 1965. Interested concerns should have their product tested and qualified by contacting the Aeronautical Systems Division, ASNPSP-3, Wright-Patterson AFB, FSN 1670-805-9036. No clearance required to receive APPI. USAWECOM.

APPI No. AV-195. Parachute, Personnel, Troop back-pack, attached back, olive drab, cotton, canopy 35 ft. dia., olive green, nylon, harness, quick release, olive drab, nylon AF 59E6173. Canopy opened by static line. In accordance with MIL-Spec MIL-P-6645E, with amendment and MIL-STD 849 dated 8 April 1965 and AF drawing 59E6228. This item is on QPL list 6645-14. Interested concerns should have their product tested and qualified by contacting the Aeronautical Systems Division, ASNPSP-3, Wright-Patterson AFB, FSN 1670-753-3727. No clearance required to receive APPI. USAWECOM.

APPI No. AV-196. Parachute, Cargo, extraction, canopy, 22 ft. dia. in accordance with USAF drawing 59B6209, latest revision with exceptions as stated in bid. FSN 1670-687-5438. No clearance required to receive APPI. USAWECOM.

APPI No. AV-197. Parachute, Cargo, extraction, 15 ft. dia. nylon canopy, without platform release cable assembly, in accordance with MIL-P-7620B and MIL-C-9401A with amendments and exceptions, as stated in bid. AF drawing 61A4312 with exceptions also applies. FSN 1670-052-1548. No clearance required to receive APPI. USAWECOM.

APPI No. MI-82. AN/GSA-77 Data Converter for the Control and Coordination System. Allows complete check of battery output, battery interface, BTE and battery display equipment, maximum size 5 1/2 cu. ft., weight 300 lbs, power output 300 watts, MTBF: 2500 hrs. No clearance required to obtain APPI. USAMICOM.

APPI No. MI-69R1. Control Surface Actuators — TOW Missile System — Two-position, linear-stroke, Helium-Gas operated actuators drive the missile control surfaces. Extension of the control surfaces from the folded position activates the system, releasing compressed gas from the storage bottle into a manifold. Variation in the dwell times at the end of the stroke achieves the effect of proportional control surface deflection without the high cost of proportional deflection actuators. No Federal Stock Number Assigned. Confidential clearance required to obtain APPI. USAMICOM.

APPI No. MI-2. Cancellation of APPI. Bistatic Radar Reflectors, published in the 6 April 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-5. Cancellation of APPI. Fail Safe Kit, published in the 4 May 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-23. Cancellation of APPI. Target System Missile, published in the 6 July 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-39. Cancellation of APPI. Shillelagh Dummy Guided Missile, published in the 7 December 1965 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. MI-57. Cancellation of APPI. Alignment Test set, Transmitter, Shillelagh, published in the 5 July 1966 issue of Commerce Business Daily is hereby cancelled due to change in military requirement. USAMICOM.

APPI No. ME-4R2. Generator Set, Gasoline Engine-Driven, 5.0 KW, 60 cycles per second, alternating current, air cooled, portable, tubular frame, skid mounted. Set shall consist of a model SF-5.0-MD, portable, 5 KW, 0.8 ph lagging, 60 cps, ac air cooled, tubular frame, skid mounted generator and a Government furnished military standard engine, model 2A042, FSN 2805-776-0484. Overall dimensions shall be 39 3/4 inches long, 30 inches w.d., 25 inches high and net dry weight shall be 400 lbs. Operating (rated) speed is 3,600 rpm. Set shall be connectable for 3 phase, 4 wire, 120 volts line to neutral and 208 volts line to line (120/208 volts); 3 phase, 3 wire, 120 volts line to line, single phase, 2 wire, 120 volts; single phase, 2 wire, 240 volts. Set shall start and operate, without external heat, at ambient temperatures from plus 125 degrees F to minus 25 degrees F at any relative humidity. With external heat, set shall start and operate at ambient temperatures from minus 25 degrees F to minus 65 degrees F. Ambient temperature within control box shall not exceed 175 degrees F under all operating conditions. Set is intended to supply power for general purpose use. In accordance with MIL-G-52279A and Dwg. No. DL1321IE6695, FSN 6115-017-8240. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-24R2. Bridge Unit, Amphibious, Mobile, Floating, Assault, Interior Bay: Includes hull with its propelling mechanism. The hull is an aluminum, amphibious, self-propelled, wheeled vehicle which serves as an interchangeable carrier for the bridge superstructure. The unit is a water tight amphibian mounted on four by four chassis. The wheels are fully retractable in wheel wells. The operating power for the wheel axles, rudder-propelled unit, hydraulic pumps, compressor and bilge pump is supplied by diesel engine through a distributor-gear unit. The hull contains all brackets, appurtenances and accessories as required to mount the machinery and superstructures so as to form a vehicle capable of transporting, serving as a floating support, providing actuation power and marine propulsion for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the interior unit used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is rotated 90 degrees by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections and male and female adapters for rigid forming of bridge sections. In accordance with MIL-H-52354A, MIL-B-52355A, MIL-S-52356A; Drawing Numbers DL13207E-1540, DL13207E5410 and DL13207E1520, FSN 5420-010-5191. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-25R2. Bridge Unit, Amphibious, Mobile, Floating, Assault, End Bay: Includes hull with its propelling mechanism. The hull is an aluminum, amphibious, self-propelled, wheeled vehicle which serves as an interchangeable carrier for the bridge superstructure. The unit is a water tight amphibian mounted on four by four chassis. The wheels are fully retractable in wheel wells. The operating power for the wheel axles, rudder-propelled unit, hydraulic pumps, compressor and bilge pump is supplied by diesel engine through a distributor gear unit. The hull contains all brackets, appurtenances and accessories as required to mount the machinery and superstructures so as to form a vehicle capable of transporting, serving as a floating support, providing actuation power and marine propulsion for the floating bridge and ferry. The superstructure (bridge unit or deck unit) is the end bay (ramp) unit used to form floating bridges and ferries, fabricated of low alloy steel. On entering water, the superstructure (deck section) is rotated 90 degrees by hydraulic power and automatically moved into position. Each deck end has hydraulic pin connections, male and female adapters for rigid forming of bridge sections. This hydraulically operated section can accommodate banks to ten feet above water level and 2 feet below water level. In accordance with MIL-H-52354A, MIL-B-52355A, MIL-S-52356A; Drawing Number DL13207E5410, DL13207E1520 and DL13207E1530, FSN 5420-010-5192. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-27R2. Tank Assembly, Fabric, Collapsible: 10,000 gallon, petroleum. Tank shall consist of a collapsible, barrier-coated fabric tank, vent pipe assembly, inlet and outlet fitting assemblies of fabric reinforced, flanged type. Tank and components shall withstand ambient temperatures from plus 150 degrees F to minus 40 degrees F. Unless otherwise specified, body fabric shall be single ply. Fabric shall be nylon, square woven cloth with a maximum weight of 8.5 plus or minus 0.2 ounce per sq. yd. Coating compound shall be resistant to hydrocarbon fuels. Tank shall be fabricated and vulcanized as a complete unit in a steam pressure type autoclave. Tank handles shall be of rubber coated, nylon fabric and withstand a pull of 1,000 lbs for not less than one minute. Tank shall not leak and there shall be no evidence of seepage when tank contains 10,000 gallons of fuel, no air leakage when under an internal pressure of one psi. Vent assembly, pressure relief valve shall open when tank is subjected to an internal pressure of three inches of water. Filler elbow assemblies shall withstand a hydrostatic pressure of fifteen psi without failure. Tank assembly is intended to be used for the storage of hydrocarbon products in connection with light weight hose line fuel supply systems. Components are listed in the Army Supply Catalog SC5430-93-CL-E01. Complete Tank Assembly shall conform to Drawing DL13207E 6370. Fabrication of tank shall be in accordance with MIL-T-12260B with Amendment 1 and Dwg. No. DL13200E6380, FSN 5430-641-8852. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-44R1. Air Conditioner, 18,000 BTU/HR: Base mounted, self-contained, compact lightweight, air cooled. The refrigeration system shall be of the vapor cycle type employing monochlorodifluoromethane. The compressor motor assembly shall be of the hermetic type in which the compressor and motor are enclosed in the same housing. There shall be no external shaft or shaft seal and the motor shall operate in a refrigerant atmosphere. Motor for compressor shall be 2 hp, ac, 208 volts, 400 cps, 3 phase; motor for condenser and evaporator fan shall be 2 hp, ac, 208 volts, 400 cps, 3 phase. Nominal cooling capacity 18,000 BTU/HR at 600 CFM rated capacity; nominal heating capacity 12,000 BTU/HR at 600 CFM rated capacity. Cabinet shall be made of aluminum with enamel finish. The maximum weight of the air conditioner including the control box and a full charge of refrigerant and oil shall be 225 lbs. The air conditioner is intended for use in providing cooled or heated air to maintain adequate working temperatures in vans. Air conditioner may be installed indoors or may be exposed to the weather. In accordance with MIL-A-52344A, class 2 and Dwg. No. DL1321IE1815, FSN 4120-061-2869. No security clearance required to obtain APPI. USAMEC.

APPI No. ME-50. Cancellation of APPI: Published previously as APPI No. ME-50, air conditioner, 60 cps, 36,000 BTU, in the 7 December 1965 issue of Commerce Business Daily is hereby cancelled. APPI No. ME-50 is replaced by ME-71. USAMEC.

APPI No. ME-97. Cancellation of APPI: Published previously as APPI No. ME-97, Generator set, GED, 7.5 KW, 28.5 volts, direct current, wheel mounted in the 7 June 1966 issue of the Commerce Business Daily is hereby cancelled. APPI No. ME-97 is replaced by ME-115. USAMEC.

APPI No. AT-767A. Track, Shoe Set, Ord 10935723. This APPI was originally released in July 1966 and this revision reflects changes in the quantities forecast. FSN 2530-955-9448. No Security Clearance required to receive this APPI revision. USA-TAC.

APPI No. AT-89R1. Transmission Assembly W. Metal Container. Ord 5703527. This APPI was originally released in September 1966 and this revision reflects changes in the quantities forecast. FSN 2530-9734-06. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-117R1. Regulator, Engine, Generator Control Assembly. 25 AMP, 24 Volt. MS-51356-1. This APPI was originally released in January 1967 and this revision reflects changes in the quantities forecast. FSN 2530-3334-77. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-146R1. Pad, Track Shoe. Ord 1066644. This APPI was originally released in May 1967 and this revision reflects changes in the quantities forecast. FSN 2530-690-2681. No Security Clearance required to receive this APPI revision. USATAC.

APPI No. AT-150. Road Wheel, Solid Rubber. Ord 1091900. This is a component of the Drive Track on the M47-M48 family of combat tanks. The Steel Disc is formed, three piece, welded construction. Approximately 21" O.D. x 3" thick. Rubber is bonded to the O.D. This is a QPL item. There are ten (10) holes around the hub I.D. for mounting purposes. FSN 2530-701-3976. SNL — G254 family. No Security Clearance required to receive this APPI. USA-TAC.

APPI No. AT-151. Wheel Assembly, Solid Rubber, Track Support. Ord 8674928. This is a component of

Track on the various tracked vehicles in the Medium-light tank family. The assembly is composed of a one (1) piece steel disc (formed) with rubber vulcanized to O.D. of the Disc. The O.D. including rubber 12" x 3" wide. There are six (6) holes drilled around the O.D. for mounting purposes. This is a QPL item. FSN 2530-699-7849. SNL — Various. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-152. Road Wheel, Solid Rubber, Tire. Ord 10919004. This is part of the track suspension system on the M108-M109, Self propelled Howitzer carriers. This assembly consists of an aluminum forged disc with a steel wear plate riveted in place and rubber vulcanized to the O. D. of the wheel. The O.D. including rubber is 24" x approximately 5" wide. There are ten (10) holes drilled around the I. D. for mounting purposes. This is a QPL item. FSN 2530-801-6702. SNL — G296. No Security Clearance is required to receive this APPI. USA-TAC.

APPI No. AT-153. Road Wheel, Solid Rubber, Tire. Ord 10891631 is part of the track suspension system on the M-107-M110, Self propelled Howitzer carriers. This assembly consists of a formed steel disc with a steel support ring welded to the disc. Rubber is vulcanized to the O. D. of the disc. The O.D. is 32 1/4" including rubber x approximately 4 1/2" wide. This is a QPL item. FSN 2530-722-3630. SNL — G295. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-154. Wheel, Solid Rubber, Tire. Ord 9092158 is part of the Track suspension system on the Hawk Transporter. This assembly consists of a forged Aluminum disc approximately 21" O.D. x 3" wide with rubber vulcanized to the O.D. of the wheel. This is a QPL item. FSN 2530-679-7922. SNL — G291A. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-155. Track Shoe (T-138). Ord 10948405 is part of the track assembly on the XM-551 Armored Assault Vehicle. The assembly consists of an Alloyed Steel forging, which is rubber backed — moulded into the steel body & a Pin & 2 nuts furnished. The assembly weights approximately 18 lbs & is 17 1/2" long x approximately 8" wide. This is a QPL item. FSN 2530-919-6477. SNL — G310A. No Security Clearance required to receive this APPI. USATAC.

APPI No. AT-156. Generator, 100 AMP, Alternator Engine 28 Volt, 2000-8000 RPM, Reversible Rotation, Belt Drive, Keyed hub for drive. Ord 7954720 is a major component in Electrical System of various trucks in the military system. FSN 2920-818-8635. SNL — Multiple. No Security Clearance required to receive this APPI. USATAC.

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